ELECTRIC

PERRY

General catalogue **2023**

Società italiana per la costruzione di apparecchi elettrici

ELECTRIC
PERRY

DIVISIONS
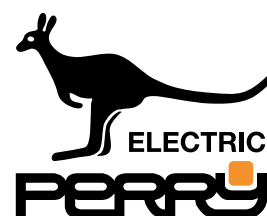
PERRY ELECTRIC
Components of electrical installations

PERRY EMERGENCY
Emergency lighting

PDA ENERGY
Energy efficiency and heat metering

Since 1969

More than 50 years of experience in manufacturing:

Manufacturer since 1969

The constant expansion of thermohydraulic and electrical distribution allows PERRY to be closer and closer to its customers. The presence in more than 40 countries worldwide are the heritage of the Company, which pays attention to the needs of every geographical area.

WALL MOUNTED AND TABLE
PROGRAMMABLE THERMOSTAT MULTI-ZONE AND MULTIMEDIA

WI-FI - RF868 MHz - M-Bus

CRM4.0

CRM031WIFI - CRM032WIFI
CRM033WIFI

New

WALL MOUNTED
PROGRAMMABLE THERMOSTATS

WI-FI

WI-FI

CR028WIFI   CR029WIFI

New

THERMOSTATS

DIGITAL

NEXT

TE028A - TE028B
TE029A - TE029B

SLIM

TE011B

TE400/B - TE410/B
TE402/B - TE411/B

ZEFIRO 80x80

TE530B - TE531B - TE532B

RECESSED
PROGRAMMABLE THERMOSTATS - H 45 mm

WI-FI   **DIGITAL "NEXT"**

WI-FI

CDS29WIFI   **New**

SOFT TOUCH

CDS28 - CDS29

TOUCH SCREEN

CDS26 - CDS27

THERMOSTATS - H 45 mm

ELECTRONIC

MODULO

TE301/MC - TE331/MC
TE303/MC - TE333/MC
TE305/MC

MODULO FANCOIL

TEF365/MC

THERMOSTATS FOR ROUND AND SQUARE BOX

ELETTRONIC

ZEFIRO

TE510A - TE510B
TE511A - TE511B
TE513A - TE513B

PERSONAL

TE101 - TE103

INDUSTRIAL TEMPERATURE CONTROL
MODULAR THERMOSTATS 2 DIN

ELECTRONIC

TE082 - TE083
TE084

TE075 - TE076
TE077 - TE078

TE052/M

CONTACT THERMOSTATS

ELECTRONIC

TB060 - TB065 - TB071
TB081 - TB088 - TB090 - TB091

DIGITAL

NEXT

CR028A - CR028B
CR029A - CR029B

UP&DOWN COMPACT

CR017AG - CR017BG
CR018AS - CR018BS

EASY

CR308/G - CR309/S

SLIM

CR311B

ELECTRONIC

GAS ESPANSION

ZEFIRO

TE500A - TE500B
TE501A - TE501B
TE502B
TE503A - TE503B
TE565B - TE566B

PERSONAL

TE120 - TE120/A
TE122 - TE122/A

EUROPA

TE036 - TE065
TE041
TE046

TEG

TEG130 - TEG131
TEG132 - TEG136

RECESSED THERMOSTATS - H 45 mm

DIGITAL "NEXT"

DIGITAL "MODULO"

SOFT TOUCH

N New

TE540
TE541 - TE541E

TOUCH SCREEN

TE542 - TE543

TE312/MC - TE322/MC
TE313/MC - TE323/MC

CONTROL DEVICES

CONTROL BOXES

BP04230 - BP08230

WIRELESS TEMPERTURE CONTROL

CRTX05

TETX04
TETX03

VTRX02

CCRX01

RX01/P
RX02/P
RX0801/P

BC0401/230
BC0801/230

CE

LVD: 2006/95/CE   EN 60730-1, EN 60730-2-9
EMC: 2004/108/CE   EN 60730-1, EN 60730-2-9

CRM4.0 – PROGRAMMABLE THERMOSTAT MULTI-ZONE AND MULTIMEDIA

- It is a programmable thermostat always connected that allows to program, manage and control the comfort of the different rooms of the house, adapting to the users' needs, reducing the energy consumption.

- Adjust up to 8 zones and 16 actuators to ensure maximum comfort and minimum waste in the various areas of the apartment. With the advanced thermoregulation module **MTE01** it can also interact with single boilers with OpenTherm protocol version 2.2 (Advanced Class V thermoregulation).

- Simple to install and use, it can also be managed by remote through the APP that can be downloaded on smartphones and tablets.

- Equipped with software for integration and Alexa voice commands.

Ready for the home automation functions of the home: shutters, curtains, lights, irrigation…

CRM4.0 system complies with the European directive 2014/53/UE (RED).

CRM4.0 is available in 3 versions:

1DOCRM031WIFI

Wall mounted model equipped with:
- Wi-Fi
- Alexa voice assistance Software
- RF 868 MHz
- M-BUS radio 868 MHz
- 1 relay
- Internal temperature probe
- Remote probe input
- Built-in power supply

1DOCRM032WIFI

Wall mounted model equipped with:
- Wi-Fi
- Alexa voice assistance Software
- RF 868 MHz
- M-BUS radio 868 MHz
- RS485 (for control box)
- Internal temperature probe
- Remote probe input
- Built-in power supply

1DOCRM033WIFI

Table model equipped with:
- Wi-Fi
- Alexa voice assistance Software
- RF 868 MHz
- M-BUS radio 868 MHz
- Internal temperature probe
- Plug-in power supply

GENERAL INSTALLATION SCHEME

ON WEB

Server

Cloud

IN THE APARTMENT

Router

RS485

Hot water meter

Cold water meter

Thermal energy meter

Electrothermal valves

FLOW MANIFOLD

Flow distribution plant

RETURN MANIFOLD

Return distribution plant

CRM4.0

Zone 1

Zone 2

| Built-in temp. sensor | Wall mounted temp. sensor | Thermostat | Humidistat |

Legenda

Zone 3

- 📶 Wi-Fi
- 📶 RF 868Mhz
- 📶 M-BUS radio
- — BUS RS485
- ▬ Hot and cold water

| Built-in temp. sensor | Wall mounted temp. sensor | Thermostat | Humidistat |
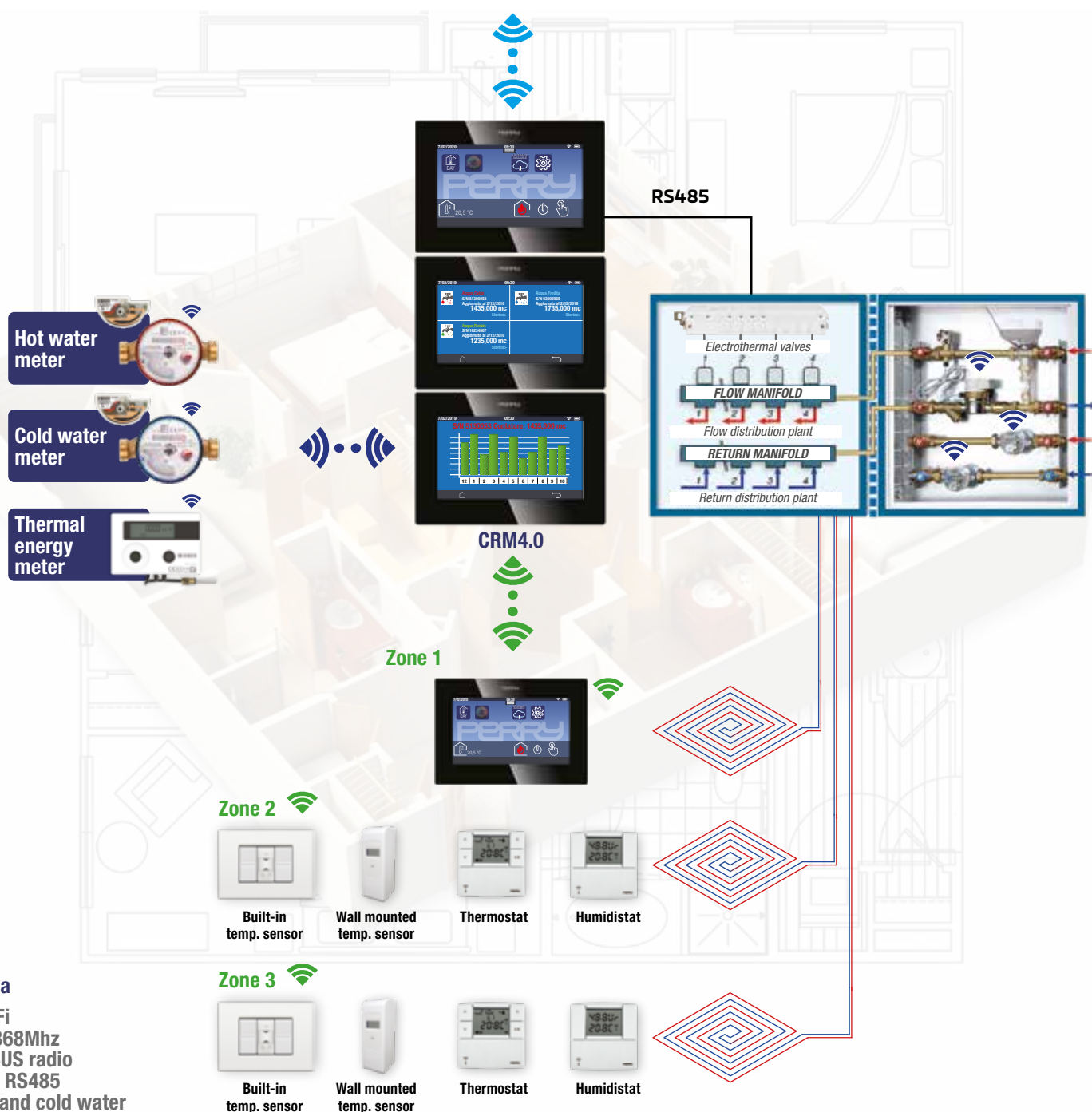
PROGRAMMABLE THERMOSTAT MULTI-ZONE AND MULTIMEDIA

CRM4.0 can be programmed and controlled both on site and by remote via internet for the access to the cloud. The **CRM4.0** 868 MHz frequency allows to reach each side of your home.

CLOUD WEB CONNECTION

CRM4.0

Router

Cloud

Server

CRM4.0

Thermostats and humidistats

Wall mounted temperature sensor

Radio receiver

RS485

Electrothermal valves

FLOW MANIFOLD

Flow distribution plant

RETURN MANIFOLD

Return distribution plant

Hot water meter

Cold water meter

Thermal energy meter

Built-in temperature sensor
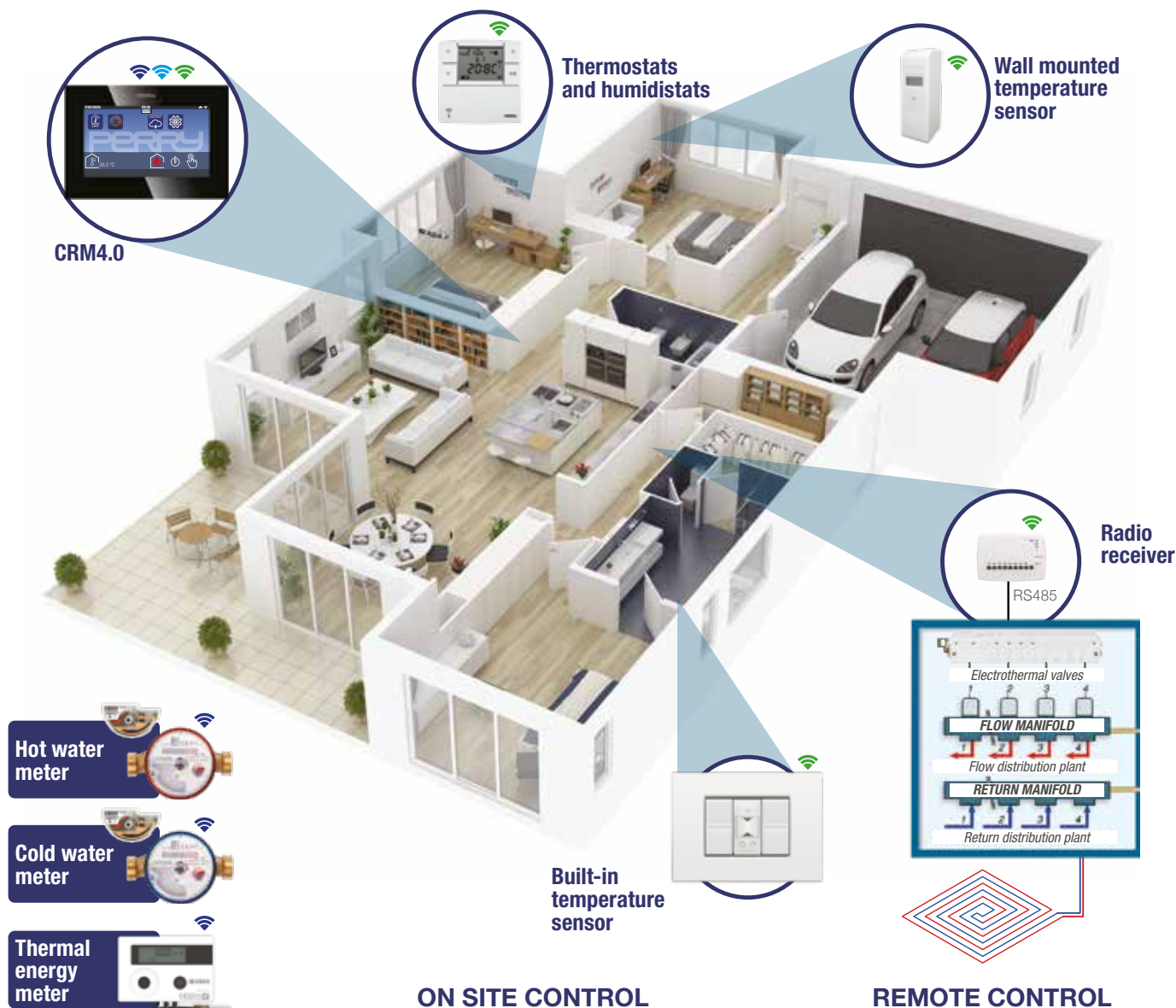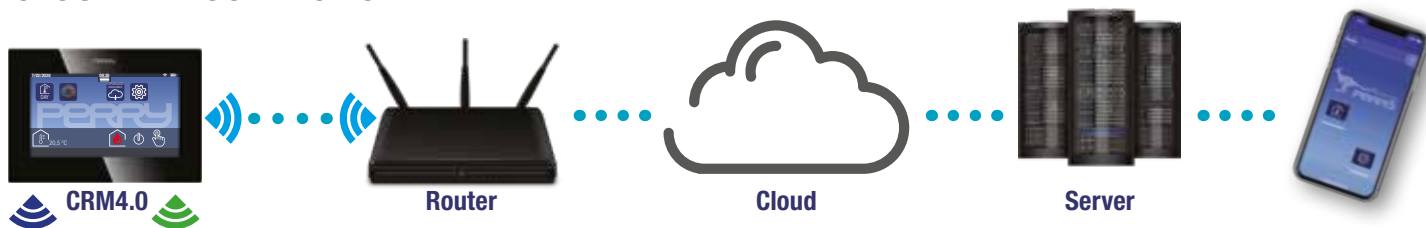
ON SITE CONTROL

REMOTE CONTROL

CRM4.0

Consumptions

Statistics

Smartphone or tablet

Legenda

📶 Wi-Fi
📶 RF 868Mhz
📶 M-BUS radio
— BUS RS485
═ Hot and cold water

CRM4.0.0 is able to thermoregulate any type of installation

System complying the **European Directive 2014/53/EU (RED)**

THERMOREGULATION

Wireless thermoregulation of each room or per zones

CRM4.0 can manage up to a maximum of 8 zones and 16 actuators.

With **CRM4.0** or smartphone you can regulate the temperature of each room or zone.

SENSORS

ACTUATORS

Suitable for all types of installation with any type of system

EXISTING SYSTEMS
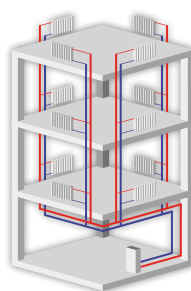
Riser systems
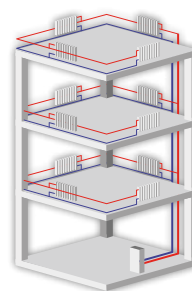
Ring systems

RENOVATED OR NEW INSTALLATIONS WITH ZONE HEATING

Electrothermal valves

FLOW MANIFOLD

Flow distribution plant

RETURN MANIFOLD

Return distribution plant
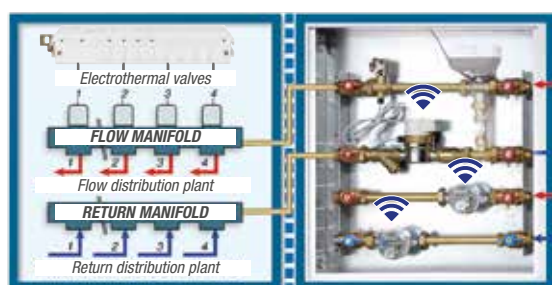
RENOVATED OR NEW INDEPENDENT HEATING INSTALLATIONS

1DO CRM032WIFI   **1DO MTE01**   **BOILER**

ELECTRIC PERRY

MULTI-ZONE PROGRAMMABLE THERMOSTAT
MULTIMEDIA INTERFACE

CRM4.0 is a user friendly system, easy to manage for all types of users.

THERMOREGULATION MENU ON CRM4.0

Overview of temperatures regulation

Overview of time profiles and temperature sets

1 operation

2 operations

3 operations

Thermal season selection

By selecting, it changes the management from heating to air conditioning

summer   winter

EASY MODE

To simplify, it is also possible to activate a practical and simple function called "EASY MODE".
CRM4.0 will autonomously perform the necessary procedures to obtain the optimal thermal comfort desired in each zone.

QUICK FUNCTIONS

CRM4.0 is equipped with a drop-down menu which can be recalled by scrolling from top to bottom.
From this menu with rapid selection the user can access the most used functions to control the entire system:
• IN/OUT function
• Holiday function
• Cleaning function

In/Out   **Holiday**   **Cleaning**
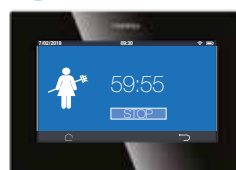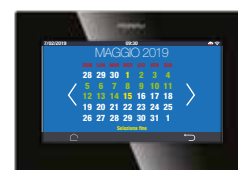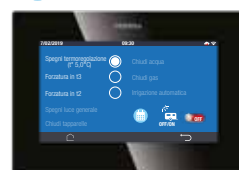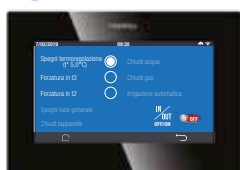
"Special functions" allow scenarios when cleaning, when leaving or entering the house, or when scheduling vacation times. Everything can be controlled quickly from the **CRM4.0** or smartphone.

PERRY

THERMOREGULATION MENU ON SMARTPHONE

1 operation

2 operations

3 operations

By selecting, it changes the management from heating to air conditioning

summer

winter

EASY MODE

QUICK FUNCTIONS

CONSUMPTION DISPLAY

MULTI-ZONE PROGRAMMABLE THERMOSTAT
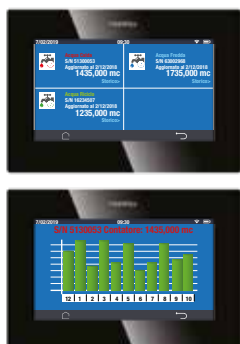
MULTI-ZONE MULTIMEDIA PROGRAMMABLE THERMOSTAT COMMON FEATURES CRM 4.0

- Power supply 230V AC 50Hz/5Vdc included in the package
- 4.3" TFT color scrolling touch screen display
- No. 8 programmable zones for hourly profiles on 4 temp. levels
- Zone programming: daily and weekly
- Communication systems: Wi-Fi for internet connection; Wireless RF 868 Mhz for communication with ancillaries; MBus Radio; Bus RS485
- Calculation of the anti-condensation dew point
- Temperature setting range +4°C ÷ +39°C

- Connection range 30 ÷ 120 m in relation to the wall structure and obstacles inside the rooms
- Accuracy ±0.5 °C
- Gradient 1°K / 15 min
- Regulation type: modulating or ON/OFF
- IP30
- Operating temperature -5°C ÷ +55 °C
- Storage temperature -5°C ÷ +55°C
- Dimensions (L x W x H) 128.5 x 26 x 88.5 mm

1DO CRM031WIFI Wall-mounted multi-zone programmable thermostat with display

- Wired relay output 5(3)A 250V AC.
- Wi-Fi
- Frequency RF 868 MHz
- MBus Radio (Reading meters compatible)

- Input remote temperature probe 1PA STE02 usable as 2nd zone
- Wall installation

1DO CRM032WIFI Wall-mounted multi-zone programmable-thermostat with display and BUS 485 connection for distribution box and/or single boiler

- BUS RS485 Output for actuator connections
- Wi-Fi
- Frequency RF 868 MHz
- MBus Radio (Reading meters compatible)

- Input remote temperature probe 1PA STE02 usable as 2nd zone
- Wall installation

1DO MTE01 Advanced thermoregulation module for 1DO CRM032WIFI for single boiler

- Suitable for boilers with OpenTherm protocol 2.2 (evolved thermoregulation Class V)

1DO CRM033WIFI Multi-zone desktop programmable thermostat with display

- Wi-Fi
- Frequency RF 868 MHz

- MBus Radio (Reading meters compatible)
- Table installation

1DO TETX05 Wall-mounted RF zone thermostat, IP30

- Power supply 2x1.5V AA type batteries - Alkaline
- 2 "1/3 digital LCD display
- Bidirectional RF868 MHz wireless radio connection
- Connection range 30 ÷ 120 m
- Temperature adjustment range +4 ÷ +39 ° C

- Accuracy ± 0.5 ° C
- Gradient 1 ° K / 15 min.
- Type of regulation: modulating or ON / OFF
- Autonomy about 2 years
- Dimensions (L x W x H) 84 x 23 x 84 mm

1DO STX01 RF ambient wall temperature probe, IP30

- Power supply 2x1.5V AAA - Alkaline batteries
- 5 digit TRH LCD display with temperature signaling environment, low battery, offset, background noise
- Bidirectional RF868 MHz wireless radio connection
- Connection range 30 ÷ 100 m
- Measuring range -30 ÷ +70 ° C

- Accuracy ± 0.1 ° C
- Gradient 1 ° K / 15 min.
- Autonomy about 3 years
- Wall installation
- Dimensions (L x W x H) 40 x 95 x 23 mm
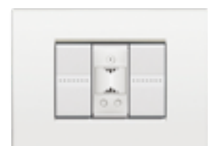
1DO STX03A Built-in RF room temperature probe in 1 civil module, anthracite color, IP40
1DO STX03B Built-in RF room temperature probe in 1 civil module, white color, IP40

- Power supply 230V a.c.
- Bidirectional RF868 MHz wireless radio connection
- Connection range 30 ÷ 100 m
- Measuring range -30 ÷ +70 ° C

- Accuracy ± 0.1 ° C
- Gradient 1 ° K / 15 min.
- Installation of 1 civil module in flush-mounted box
- Dimensions (L x W x H) 40 x 95 x 23 mm

1DO RXTEUM01 Wall-mounted combined temperature + relative humidity probe, IP30

- Power supply 2x1.5V AA type batteries - Alkaline
- 2 "1/3 digital LCD display
- Bidirectional RF868 MHz wireless radio connection
- Connection range 30 ÷ 120 m
- Temperature adjustment range +4 ÷ +39 ° C

- Relative humidity % adjustment range from App
- Accuracy ± 0.1 ° C
- Gradient 1 ° K / 15 min.
- Autonomy about 3 years
- Dimensions (L x W x H) 84 x 23 x 84 mm

1DO VTRX05   Electronic valve for radiators with 868.35Mhz radio transceiver, IP40

- Power supply 3V 2x1.5V AA batteries - Alkaline
- Built-in room temperature probe
- Operation with ON / OFF or modulating intervention
- Autonomy about 12 months depends on the daily operations
- Max pushing force in closing 8 Bar
- Compatible with thermostatic valves with PN (Nominal flow rate) 8 Bar and ΔP (differential) 1 Bar
- Battery charger and / or anomalies indication
- Dimensions (L x Ø) 85.5 x 53 mm

1DO VTRX04   Electronic valve for radiators with 868.35Mhz radio transceiver

- Power supply 3V 2x1,5V size C alkaline
- ON/OFF or modulating operation
- IP40
- Autonomy 36 months based on daily intervention
- Max pressure in closing 10 Bar
- Compatible with thermostatic valves with PN (Nominal flow) 10 Bar and Δ P (differential) 1 Bar
- RF signal level indicator
- Faulty and / or battery charge indicator
- Dimensions (L x W x H) 62 x70 x 97 mm

1PA ASVT01	**Angle adapter for electronic valves on radiator VTRX04**
1PA CA02VT	**Tamper-proof seal for electronic valves on radiator VTRX04**
1PA CA03VTF	**Female unscrewing collar for electronic valves on radiator VTRX04**
1PA CA03VTM	**Male unscrewing collar for electronic valves on radiator VTRX04**

1DO RTX01DO   Radio transceiver 1 channel 230V a c
1DO RTX02DO   Radio transceiver 2 channels 230V a c

- Power supply 230V a.c. 50 ÷ 60 Hz
- Bidirectional wireless radio RF868 MHz connection
- 1DO RTX01DO 1 changeover contact output 5(2)250V a.c. 1⤳⊏
  1DO RTX02DO 2 changeover contacts output 5(2)250V a.c. 2⤳⊏ + 1⤳⊏ pump
- ON /OFF operation
- Connection range 30 ÷ 120 m
- IP30
- Wall mounting
- Dimensions (L x W x H) 133 x 90 x 25 mm

1DO RTX0801DO 8-zones radio transceiver + 1 circulation pump output

- Power supply 18V a c (from the control box)
- BUS RS485 output
- Bidirectional wireless radio RF868 MHz connection
- Connection range 30 ÷ 120 m
- Insulation class III
- IP30
- Wall mounting
- Dimensions (L x W x H) 133 x 90 x 25 mm

1DO BC0400   4 zones control box
1DO BC0800   8 zones control box

- Power supply 230V a.c. 50 ÷ 60 Hz
- Contacts output 8(2)A 250V a.c.
- BC0400 4 polarized NO/NC contacts ⤳⊏ + 1⤳⊏ pump
  BC0800 8 polarized NO/NC contacts ⤳⊏ + 1⤳⊏ pump
- IP 52 with rubber cable glands
- Insulation Class II
- Box, wall, with brackets installation
- Dimensions (L x W x H) 273 x 69 x 76 mm

1PA PPBC01	**Cable glands for control boxes**
11SE AEDS	**Electro-thermal actuator for thermostatic valve 230V NC**

ACCESSORIES

1DO SWCDM01	**C.DOM Manager Software to control CRM4.0 from PC**
1PA STE02	**NTC temperature probe with 4 m cable for 1DO CRM031WIFI and 1DO CRM032WIFI**
1PA BTTETX01	**Table base for 1DO TETX05 and 1DORXTEUM01**
1PR PSA01	**Replacement batteries for TETX05, RXTEUM01, VTRX05**
1PR PMS01	**Replacement batteries for STX01**
1PR PMT02	**Replacement batteries for VTRX04**
1VA ROUTER002	**Router LTE/4G with batteries**

⚠️ **NOTE**
1) For the installation of CRM4.0 it is essential to have a Wi-Fi network. In case not available, use item 1VA ROUTER002 for the installation.
2) The configuration (first installation) of CRM4.0 with ancillaries: temperature probes, thermostats, humidistats, radio receivers, VTRX04, VTRX05; is possible only with Android Smarthphones.

COMPACT MECHANICAL ENERGY METERS

1DO CC15R03
Hot/cold mechanical energy meter DN15, M-BUS radio reading
1DO CC25R03
Hot/cold mechanical energy meter DN20, M-BUS radio reading

- Inductive bidirectional scanning single jet meter
- Reverse flow detection
- Temperature measurement cycle 2-60 sec.
- Installation in output
- Horizontal/vertical installation
- Temperature probes Pt1000 with cable length 1,5 meters
- Directive 2004/22/EC (MID MI-004) and in compliance with EN 1434

ELECTRONIC UNIT
- Replaceable 3V lithium battery, useful life 10 years
- Removable electronic unit, cable length 50 cm
- Protection class: IP65
- Operating temperature 5-55°C
- 8 digits LCD display (up to 3 decimal places)

CODE	Nominal flow rate Qp (m3/h)	DN	External thread	Lenght (mm)	PN (bar)	Max. flow rate Qs (m3/h)	Min. flow rate Qi (l/h)	Pressure drop Δp at Qp (bar)	Pressure drop Δp at Qs (bar)	Heat temp. range (°C)	Refrigeration temp. range (°C)
1DO CC15R03	1,5	15	G¾"B	110	16	3	60	0,2	0,84	15 - 90	5 - 90
1DO CC25R03	2,5	20	G1"B	130		5	100	0,17	0,675		

COMPACT ULTRASONIC ENERGY METERS

1DO UL1520R01
Compact hot/cold ultrasonic energy meter DN15, M-BUS radio reading
1DO UL3525R01
Compact hot/cold ultrasonic energy meter DN20, M-BUS radio reading

- Reverse flow and air presence detection
- Measuring element with no moving parts
- Installation possible in all positions in output
- Straight sections not required
- Pt1000 temperature probes with 1.5 m cable length
- MID 2004/22/EC certification (EN 1434), class 2

ELECTRONIC UNIT
- Replaceable 3V lithium battery, service life 10 years
- Removable electronic unit, cable length 85 cm
- Protection class: IP65
- Operating temperature 5-55°C
- 8-digit LCD display (up to 3 decimal places)
- Memory of max. flow rate and power values

CODE	Nominal flow rate Qp (m3/h)	DN	External thread	Lenght (mm)	PN (bar)	Max. flow rate Qs (m3/h)	Min. flow rate Qi (l/h)	Pressure drop Δp at Qp (bar)	Pressure drop Δp at Qs (bar)	Heat temp. range (°C)	Refrigeration temp. range (°C)
1DO UL1520R01	1,5	15	G¾"B	110	16	3	0,015	0,21	0,85	15 - 90	5 - 90
1DO UL3525R01	3,5	20	G1"B	130		7	0,035		0,885		

ACCESSORIES
1DO 131205002   **Fitting set DN20 ¾"x½" for heat meters CC15 / UL15**
1DO 131207002   **Fitting set DN25 1 "x¾" for heat meters CC25 / UL35**

HOT/COLD SANITARY WATER METERS

1DO CACS2503
Domestic hot water meter DN15 connections 80 mm, M-BUS ready
1DO CACS2502
Domestic hot water meter DN15 connections 110 mm, M-BUS ready
1DO CACS4002
Domestic hot water meter DN20 with 130 mm connections, M-BUS ready
1DO CAFS2503
Domestic cold water meter DN15 connections 80 mm, M-BUS ready
1DO CAFS2502
Domestic cold water meter DN15 connections 110 mm, M-BUS ready
1DO CAFS4002
Domestic cold water meter DN20 with 130 mm connections, M-BUS ready

- Single jet meter and dry dial
- Magnetic drive
- 360° rotating cover
- Condensation-proof dial
- MID 2004/22/CE Approved Range 160-H and 50 -V
- Certified for use with drinking water (D.M. 174)

CODE	Nominal flow rate Qp (m3/h)	DN	External thread	Lenght (mm)	PN (bar)	Maximum flow rate Qs (m3/h)	Minimum flow rate Qi (l/h)	Operating temperature (°C)	Pulse value (l)	Min. reading (l)
1DO CACS2503	2,5	15	G¾"B	80	16	3,13	25	water 90°C	-	0,05
1DO CACS2502				110						
1DO CACS4002	4,0	20	G1"B	130		5,0	40		-	0,05
1DO CAFS2503	2,5	15	G¾"B	80		3,13	25	water 50°C	-	0,05
1DO CAFS2502				110						
1DO CAFS4002	4,0	20	G1"B	130		5,0	40		-	0,05

1DO MBR03
MBR03 M-BUS radio transmitter module for M-BUS-ready meters

- Transmission of consumption data relative to the last 15 month-ends
- Protection degree: IP68
- Automatic radio activation
- The installation of the M-BUS radio module must be simultaneous with the installation of the water meter
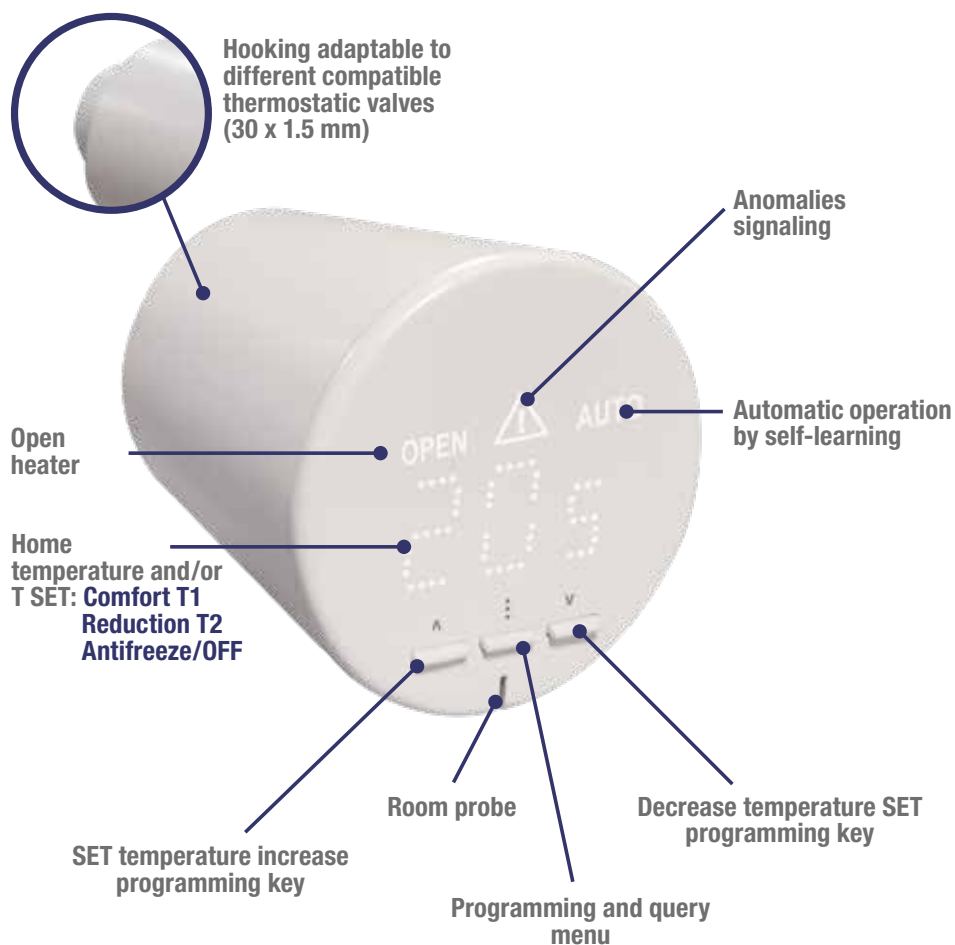
VTRX05 ELECTRONIC VALVE

VTRX05 INTELLIGENT ELECTRONIC VALVE FOR RADIATORS AND TOWEL WARMERS

The most advanced and efficient answer for the thermoregulation of every radiator.

The **VTRX05** intelligent electronic valves installed in radiator systems can be associated to **CRM4.0** for the realization of multimedia multizone systems and/or installed stand alone on radiators/towel warmers of the house.

The **VTRX05** installed stand-alone allow to turn on radiators with precise regulation of temperature set T1 (comfort temperature), T2 (reduction temperature) through the valve frontal buttons.

The **VTRX05**, equipped with intelligent self-learning, regulate the hourly periods of comfort (T1) and reduction (T2) according to the trend of life of the user thus assuming the function of daily programmable thermostat applied to each radiator of the house.

Hooking adaptable to different compatible thermostatic valves (30 x 1.5 mm)

Anomalies signaling

Open heater

Automatic operation by self-learning

Home temperature and/or T SET: Comfort T1 Reduction T2 Antifreeze/OFF

Room probe

Decrease temperature SET programming key

SET temperature increase programming key

Programming and query menu

T1				
T2	06:00	08:00	18:00	23:00

TECHNICAL NOTE

VTRX05 is realized with hardware and firmware solutions that allow to reduce the natural difference between temperature measured by VTRX probe and real room temperature.

Moreover, through the valve menu it is possible to access the off-set function for further adjustments between the value read by the VTRX temperature probe and the real room temperature.

The **VTRX05** valve is realized with modulating operation of the thermostatic valve to minimize the energy consumption of each radiator.

The stand-alone installation of the intelligent electronic valve **VTRX05** is easy to use for the reduction of energy consumption from heating of:
• Radiators and towel warmers installed in apartments
• Radiators installed in public places: offices, stores, schools, etc.
• Radiators installed in hotel rooms, RSA, etc.

INDIRECT METERING

NEW ALLOCATORS OMS COMPATIBLE

1SE100301
GIUSTO-100N2 allocator

1SE100302
GIUSTO-100NE2 allocator

1SE100301 - GIUSTO-100N2 ALLOCATOR

OMS compatible allocator for displaying the heat consumption units of the radiator.
Safe and precise, applied on each radiator, it allows the precise calculation of consumption thus obtaining a quantification of the thermal consumption and, consequently, of the costs.

The transmission of the daily consumption data is sent to the receiving device together with the consumption of last 7 days and consumption of the last 12 months.

The Giusto-100N2 allocator can provide for two-way communication for the fifteen days following installation in order to allow parameterization at a later time without necessarily having to access the home. After 15 days or immediately after parameterization, it switches to OMS compatible one-way.
The allocator is approved according to the European standard EN834 and is powered by long-lasting batteries.

1SE100302 - GIUSTO-100NE2 ALLOCATOR

Electronic heat cost allocator equipped with a remote probe suitable in case of convectors, radiators covered by radiator covers and / or various obstructions.
The device is fixed to the wall following the specifications of the legislation while the external probe is fixed on the heating body.

Included in the package:
• zamak plate with remote probe
• 2 screws and 2 fischer
• 1 seal and 1 anti-burglary label
• 1 small lid
• 2 plastic clamps

CONSULTATION OF CONSUMPTION DATA

The "ticks" relating to consumption are displayed thanks to the clear parameterization of the heat cost allocator on the basis of the heat output and the type of heating body.
The reader acquires consumption data in WBF through a WSL868 key and EQUO software or, alternatively, through a remote reading thanks to floor control units and master control unit which autonomously posts the data on the server.

As per the recent regulations that suggest periodic consultation of the consumption data, the WEB portal is available which draws from the server the data and makes them easily accessible to the system manager, the condominium administrator and the individual condominium. The portal allows viewing consumption of heating and consumption of cold and domestic hot water, facilitating the perception of the trend through graphic representations expense by the User.

INDIRECT METERING COLLECTIONG DATAS WITH CRM4.0
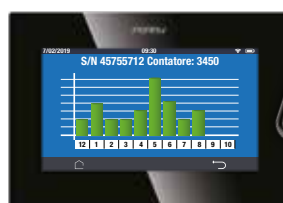
The allocators GIUSTO-100N2 and GIUSTO-100NE2 combined with CRM4.0 allow the reading of the consumption data on Smartphone and Tablet with updated data at 24:00 of every day.

CRM4.0 can read up to a maximum of 16 allocators
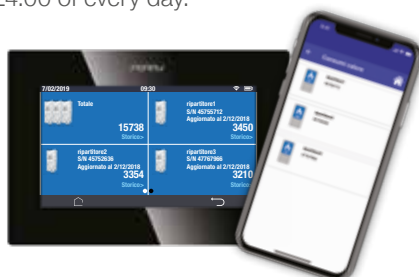
Reading the daily saved consumption data received from all allocators connected to CRM4.0.

Graphic reading of the consumption trend of the single device.

FIXING ACCESSORIES

CODE	DESCRIPTION
2SE007KTS	Standard fixing kit for 1SE100301: 1 zama plate, 2 trapezoidal anchor, 2 screws TC m4x40
2SE100202	TAMPER-PROOF SEAL for 1SE100301, package 50 pcs.
2SE100302	WIDE 55 ALUMINIUM PLATE - 55 mm wide - package 10 pcs. (for 1SE100301 order separately 2SE100304)
2SE100303	WIDE 88 ALUMINIUM PLATE - 88 mm wide- package 10 pcs. (for 1SE100301 order separately 2SE100304)
2SE100304	STANDARD ZAMA PLATE - 10 pcs. for 1SE100301
2SE100401	STANDARD TRAPEZOIDAL ANCHOR - 35 mm wide on long side - package 50 pcs.
2SE100402	WIDE 50 TRAPEZOIDAL ANCHOR - 50 mm wide on long side - package 20 pcs.
2SE100403	SHAPED ANCHOR P.45 - distance between pipe (pitch) 45 / 46 mm - package 20 pcs.
2SE100404	EXPANSION CORNER - the package includes the expansion corners, M4 hex nuts and M4 x 35 cylinder head screws - package 20 pcs
2SE100405	M3 THREADED PLATE 16x6x4 - for M3 screws - package 50 pcs.
2SE100407	M4 THREADED PLATE 30x6x6 - for M4 screws - package 50 pcs.
2SE100701	M3 FLANGED HEX NUT - package 100 pcs.
2SE009KTS	Metal clamp kit composed by: a 1 meter metal belt, 4 steel heads with screw, 4 washers, 4 Yellow tamper-proof seals, 4 M3 nuts and 4 studs M3x10
2SE008KTS	U-Bolt kit composed by: 1 U clevis, 4 nuts M3 and central aluminium body
2SE100601	Self-Tapping Screw. Made of galvanized iron, cylindrical head 2.9 x 25 mm - package 100 pcs.
2SE100602	Self-Tapping Screw. Made of galvanized iron, cylindrical head 3.9 x 25 mm - package 100 pcs.
2SE100610	Self-Tapping Screw. Made of galvanized iron, cylindrical head 4.2 x 16 mm - package 100 pcs.
2SE100603	Self-Tapping Screw. Made of galvanized iron, cylindrical head 4.8 x 25 mm - package 100 pcs.
2SE100608	Self-Tapping Screw. Made of galvanized iron, cylindrical head 5.5 x 25 mm- package 100 pcs.
2SE100501	M3 X 10 welding stud- package 100 pcs.
2SE100502	M3 X 20 welding stud - package 100 pcs.
2SE100604	M3 x 30 cylindrical head screw - package 100 pcs.
2SE100606	M4 x 40 cylindrical head screw - package 100 pcs.
2SE100607	M4 x 60 cylindrical head screw - package 100 pcs.
2SE100609	M4 x 100 cylindrical head screw - package 100 pcs
2SE100900	Special Meter specially studied for a safe and easy identification at the 75% high of the heating body.
2SE100800	Pattex two-component adhesive 2K tube Metal
2SE002KTS	Fixing kit for use of two-component adhesive on 1SE100301 comprehensive of: 1pc. standard aluminum plate with 2pcs. M3x10 studs. Order separately: 2pcs. M3 hex nuts, 1pc. tamper-proof seal (2SE100201 or 2SE100202 based on allocator model) and 1pc. standard zama plate (2SE100304) if for 1SE100301 - 10 pcs.
2SE003KTS	Fixing kit for use of two-component adhesive for 1SE100301 comprehensive of: 1pc. 55 wide aluminum plate with 2pcs. M3x10 studs. Order separately: 2pcs. M3 hex nuts, 1pc. tamper-proof seal (2SE100201 or 2SE100202 based on allocator model) and 1pc. standard zama plate (2SE100304) if for 1SE100301 - 10 pcs.
2SE004KTS	Fixing kit for use of two-component adhesive for 1SE100302 comprehensive of: 1pc. standard aluminum plate with 2pcs. M3x10 studs. Order separately: 2pcs. M3 hex nuts,1pc. tamper-proof seal - 10 pcs.
2SE005KTS	Fixing kit for use of two-component adhesive for 1SE100302 comprehensive of: 1pc. 55 wide aluminum plate with 2pcs. M3x10 studs. Order separately: 2pcs. M3 hex nuts, 1pc. tamper-proof seal - 10 pcs.

CONCENTRATOR OF THE FLOOR

1SE100901 NODO-1000R landing repeater 3v battery operated

- The landing control unit to collect via radio and the transmit data concerning the consumption of a number of apartments to the concentrator gateway with GPRS modem.
- A concentrator can be installed each 2-3 floors, depending on the geometry of the building and the actual radio range obtainable.
- The concentrator as per set schedule collects the readings from all radio devices and sends them to the concentrator with GPRS modem.

CONCENTRATOR GPRS

1SE100902 NODO-1000RG concentrator with GPRS modem 230v a.c

- Concentrator with built-in GPRS modem
- It allows the communication of consumption together with any faults and tampering to the service center
- A concentrator with GPRS modem is installed for each building or staircase, depending on the geometry of the building and the actual radio range obtainable
- Network configuration of the landing repeater NODO-100R, by EQUO Software
- With scheduled readings, it reads the devices of its radio area, stores data and send them to the service center
- Compatible only with SIM M2M Vodafone (check with other operators)
- Dimensions L x P x H mm: 210x200x50

AMBIENT TEMPERATURE RECORDER

1SE100911 GRADO-200R temperature logger

- It detects the ambient temperature and calculates the medium value of the detected temperatures read on three time slots.
- The device stores every day the three medium temperature T1, T2, T3 for a period of 18 months
- The stored data read via radio from the outside of the building by WSL key 1SE100801 / WSL key 1SE100802 with communication secured by password.
  Alternatively, with control units Nodo-1000R / Nodo-1000RG / Nodo-1001ME if the installation is equipped.
- Equipped with anti-tempering system.

EQUO It's a software to carry out the measurement of the thermal power installed in a condominium, parameterizes the allocators and pulse counters, reads the seasonal consumption and allocates the heating costs. It is easily installed on a standard PC and interacts via radio with the WSL Key for reading and managing the allocators. EQUO is not available for Apple computers.
The reading and management of the allocators can be performed remotely through the installation of repeaters and concentrators RETE-1000R, RETE-1000RG. It is available in 3 versions:

1SE 101201 EQUO PROFESSIONAL
For thermo-technical professionals
• Selection heater and input heater data
• Design of heat regulation components (valves, heads, lockshields)
• Determine the installed power
• Determine the parameters to set in the allocators
• Generate the report of the installed thermal power for the certification by authorized technical personnel
• Calibrate the presetting of the thermostatic valves

Allows you to store neatly the data for the calculation of the power of radiators, evaluated according to the UNI EN 442:2004 (manufacturer's data archive), imputes, eventually, the power of the intake pipes flow and return; stores the data of the valves and lockshields. Suited to detect the total power of the apartment with detail of single radiator, the thousandths craft of the power installed, the total power of the system. Processes data to perform the calibration of pre-adjustable valves.

1SE 101202 EQUO ENTERPRISE
For allocation service manager
• Manage user details
• Acquisition of faults on allocators and pulse counters via radio
• Read data, via radio, memorized by allocators and pulse counters
• Consumption validation
• Individual allocation of the heating costs
• Generation of allocations reports in PDF and EXCEL

It has the features of the Professional version and in addition it reads the data via radio of the heat cost allocators, allows the validation of consumption for periods (season, monthly) and allows the use of different algorithms to estimate any missing consumption. In the cost allocation phase, it allows you to produce a detail of the relevant expenses divided into expenses for thermal power used and expenses according to consumption, according to the UNI 10200 sector technical standard. The UNI10200 cost allocation module also provides for the presence of heat meters direct and domestic hot water meters.

1SE 101203 EQUO FULL
For installers
EQUO FULL offers the functionalities of the 2 versions above and also allows the installation and the maintenance of allocators and pulse counters, the local and remote parametrisation as well as protection enabling of the system.

1SE 100801 WSL small key
(Wireless Serial Link) for radio communication from the landing of the building between laptop and allocators / pulse counters via EQUO software. Necessary to carry out readings onsite and to manage the devices. The key allows up to 10.000 parameterizations.

1SE 100802 WSL key
(Wireless Serial Link) for radio communication from the outside of the building between laptop and allocators / pulse counters via EQUO software. Necessary to carry out readings onsite and to manage the devices. The key allows up to 10.000 parameterizations.

1SE 100809 Replacement antenna for WSL key

FRAMEWORK WEB PORTAL FOR GIUSTO-100N2 OMS COMPATIBLE
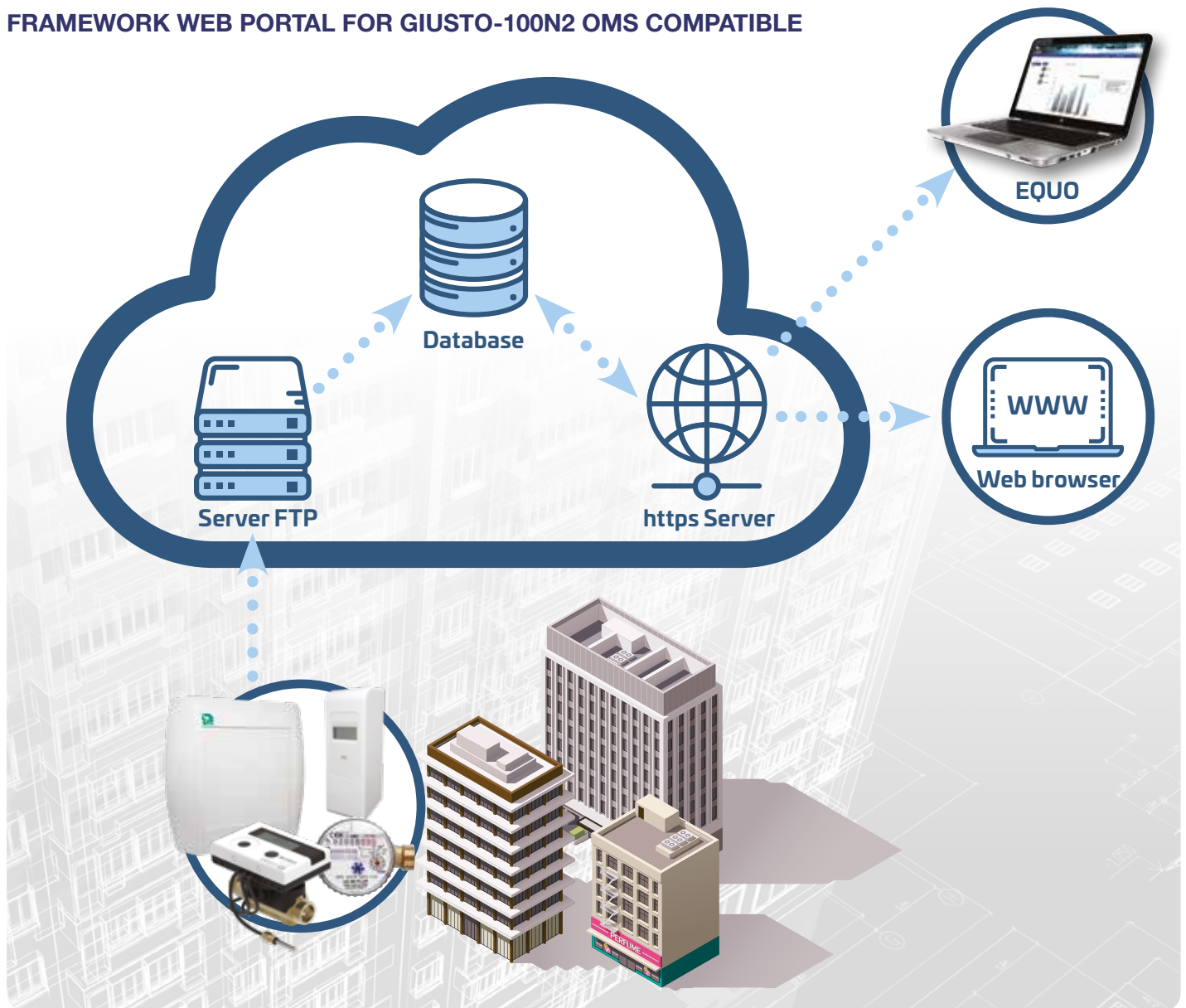
FEATURES

As for the current standards, with the aim of making the data available to the user in a clear and transparent way, the Web portal is born. The read data from the various metering devices are acquired with Nodo-1000R and Nodo-1000RG control units on a monthly basis. The infrastructure, designed to automatically post data on the FTP server, allows, once the web portal is activated, periodic consultation of the relevant consumptions.

The portal allows to be viewed:
• Heating Indirect consumptions measured with GIUSTO-100N2 / GIUSTO-100NE2
• Heating Direct consumptions measured with compact energy meter
• Consumption of domestic hot and cold water

The portal framework is designed to provide different information and different levels of interaction to the three intended user profiles: Apartment, Building Manager, Heat Manager

The profiles are specified below:

USER Apartment (Apartment owner)
Logging into the web portal, this user can view the latest readings, the historical readings and the consumption trend of their own apartment.

USER Building Manager (Building Administrator)
Logging into the web portal, this user can manage several Apartment users.
In particular, the Building Manager user can view the latest readings, the historical readings and the trends of the accounting devices of all condominiums managed by this user

USER Heating Manager
Logging into the web portal, this user manages the Building Manager and Apartment users.
The Manager user has all the write and read privileges.

- **Programmable thermostat connected to internet. It's programmable and readable by smartphone, tablet e PC.**
- **Expandable (up to 30 devices, included max 1 energy meter) for zone valves control.**

1TX CR028WIFIKIT
Starter kit: 1 Wi-Fi programmable thermostat 1TX CR028WIFI + 1 Smartbox 1TX RX01WIFI
Product complying the radio devices Directive 2014/53/UE and RoHS 2011/65/UE

The ready-to-use solution to adjust the temperatures of your home directly from your smartphone.
The kit includes the 1TX CR028WIFI chronothermostat and the Smartbox 1TX RX01WIFI.

1TX CR028WIFI - 3V
Wi-Fi programmable thermostat 3V with radio receiver 868.35MHz, white color
Product complying the radio devices Directive 2014/53/UE and RoHS 2011/65/UE

Backlit display

- Power supply 3V – 2x1.5V AA alkaline batteries
- Output: 1 potential free changeover contact: 5 (3) A / 250V a.c.
- 4.3" backlit LCD display
- Backlit buttons
- ON / OFF operation mode with adjustable differential from (0.2-0.3-0.5-0.7° C) or modulating (control period 10/15/20/25 minutes)
- Up to 10 daily programs

- Summer / Winter control
- Temperature adjustable by 0,5°C sets
- Minimum programming: 1 minute
- Holiday Program (energy saving)
- Pump activation program
- Timed backlighting
- Keyboard lock
- Wall mounting
- Dimensions (LxWxH) 128.5 x 88.5 x 26 mm

The programmable thermostat WI-FI PERRY powered by 3 V alkaline batteries (it doesn't need 230V), allows to change easily and quickly the traditional thermostats.

1TX RX01WIFI
Smartbox 5V for Wi-Fi Programmable thermostat 3V with radio receiver 868.35MHz
Product complying the radio devices Directive 2014/53/UE and RoHS 2011/65/UE

- Power supply 5V 350 mA (Powered by an external micro USB adapter)
- PCB antenna build in

- Connected via Ethernet cable RJ45 to the router (included)
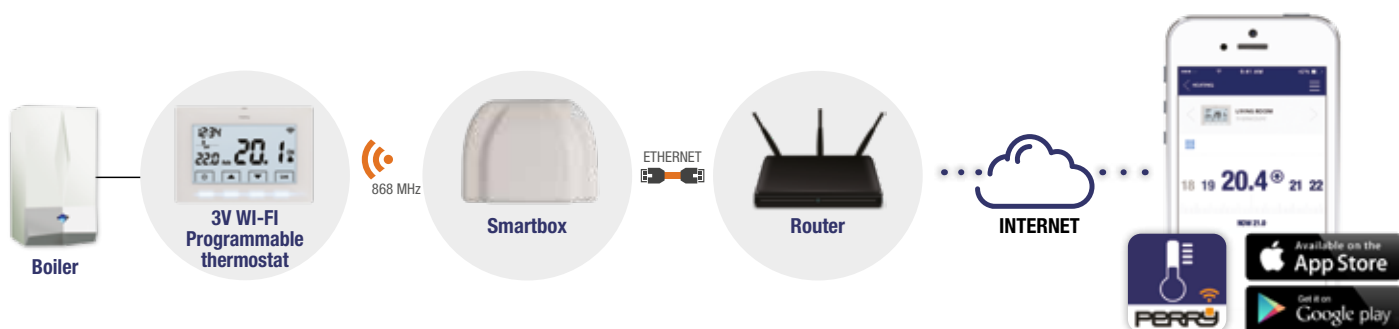- Dimensions (LxWxH) 102 x 35 x 77 mm

1TX ME01WIFI
Power meter with radio receiver 868.35MHz - 1 DIN
Product complying the radio devices Directive 2014/53/UE and RoHS 2011/65/UE

- Power supply 200-260V 50Hz
- PCB antenna build in

- Dimensions (LxWxH) 17,5 x 60 x 90 mm

Boiler — 3V WI-FI Programmable thermostat — 868 MHz — Smartbox — ETHERNET — Router — INTERNET

App Store
Google play

Backlit display

1TX CR029WIFI - 230V
Wi-Fi programmable thermostat 230V with radio receiver 868.35MHz, white color

- Power supply 230V - 50Hz
- Output: 1 potential free changeover contact: 5 (3) A / 250V a.c.
- 4.3" backlit LCD display
- Backlit buttons
- ON / OFF operation mode with adjustable differential from 0.2 to 1,2°C or modulating (control period from 7 to 20 minutes)
- Up to 10 daily programs

- Summer / Winter control
- Temperature adjustable by 0,5°C sets
- Minimum programming: 1 minute
- Holiday Program (energy saving)
- Pump activation program
- Timed backlighting
- Keyboard lock
- Wall mounting
- Dimensions (LxWxH) 128.5 x 88.5 x 26 mm

MULTI-INSTALLATION / MULTI-ZONE MANAGEMENT

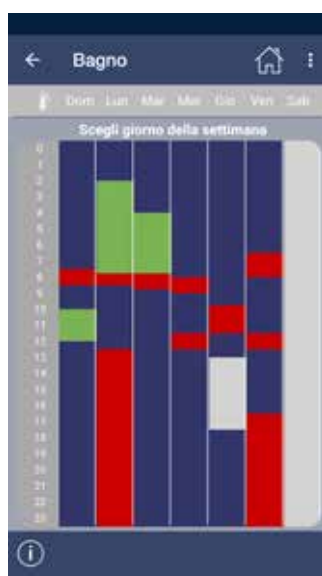To manage multiple devices in a home or in different systems.

TEMPERATURE SETTING

Simple and intuitive.

WEEKLY PROGRAMMING

Up to 10 levels of temperature per day.

VOICE ASSISTANTS

The new Perry Wi-fi programmable thermostat supports Alexa and Google Home. From now on, it will be easy to manage the home temperature.

WORKS WITH
amazon alexa

Ask to saloon programmable thermostat to set 21°C

EASY TO INSTALL

The new programmable thermostat CR029WIFI simplifies the installation and configuration operations. Using the Perry APP the parameters of time, date and time programming synchronize in few seconds.

ADVANCED SETTINGS

Temperature locks, offset, regulation for floor or traditional installation.

SHARING

App allows sharing the devices with other users (with setting limits). Function particularly useful in the family or in rented homes.

Keys lit in different colors depending on consumption

1CR CR028A - Anthracite color - 3V
1CR CR028B - White color - 3V
1CR CR029A - Anthracite color - 230V
1CR CR029B - White color - 230V
"NEXT" series menu driven weekly digital programmable thermostat

Backlit display

- Multilanguage menu
- Power supply: 3V 2x1,5AA alkaline batteries (CR028)
  230V 50-60Hz (CR029)
- 4.3" backlit LCD display
- Output: 1 potential free changeover contact: 5(3)A/250V a.c.
- ON / OFF operation mode with adjustable differential from 0.2-1.2 ° C or modulating with control period from 7-20 min
- 4 preset modifiable programs
- Temperature levels: 3 + anti-freeze
- Independent manual temperature
- Temperature adjustable by 0,1°C sets
- Minimum programming: 30 minutes
- Temporary / permanent manual operation
- Automatic daylight saving time change

- Pausing for household cleaning
- Input for telephone programmer or remote contact
- Summer / Winter control
- Input for remote probe (CR028)
- Holidays program and pump activation program
- Temperature setting lock
- User / Installer password
- Backlighting: timed (CR028), timed and fixed (CR029)
- Relay status indicator
- Maintenance settings during blackout 48-hour (CR029)
- Temperature offset: adjustable according to product positioning
- Temperature setting range: 5 - 37.7°C
- Dimensions: (L x W x H) 128.5 x 88.5 x 26 mm

1PA STE02 NTC temperature probe with 4 m cable, for CR028

Detection probe with 2x1.5 mm² shielded cable - IP65 - Extendable up to max. 20 m.
The probe allows temperature sensing in another room, underfloor or outside.

1CR CR017AG - Anthracite color - Daily
1CR CR017BG - White color - Daily
1CR CR018AS - Anthracite color - Weekly
1CR CR018BS - White color - Weekly
"UP & DOWN Compact" digital programmable thermostat 3V series

- Power supply 3V - 2x1.5V AAA alkaline
- 4" ½ LCD display
- 1 potential-free changeover contact output: 5(2)A/250V a.c.
- 10 Temperature levels + anti-freeze
- Minimum programming time 60 minutes
- Temperature offset: adjustable according to product positioning (winter / summer)
- Automatic daylight saving time adjustment
- ON / OFF operation mode with adjustable differential switch or proportional with control period 7/10/13/20'
- 3 operation modes: intelligent / eco / optimised

- Temporary / permanent manual operation modes
- Autonomy: 12 months
- Holiday Program and pump activation program
- Pausing for household cleaning
- Temperature setting lock
- Keypad lock
- Password protection for access to keyboard
- Heating setting range: 15-17-18-19-20-20,5-21-22-23-24°C
- Cooling setting range: 20-22-23-24-25-26-27-28-32-36°C
- Dimensions (L x W x H) 133 x 26 x 90 mm

1CR CR311B
"SLIM" serie digital programmable thermostat

- Multilanguage menu
- Power supply 3V - 2x1.5V AAA alkaline
- 1 potential-free changeover contact output: 5(2)A/250V a.c.
- ON / OFF operation mode with adjustable differential from 0.2-1.2 ° C or modulating with control period from 7-20 min
- 4 preset modifiable programs
- Temperature levels: 3 + anti-freeze
- Independent manual temperature
- Temperature adjustable by 0,1°C sets
- Minimum programming: 30 minutes
- Independent manual temperature
- Automatic daylight saving time change

- Summer / Winter control
- Holiday Program and pump activation program
- Pausing for household cleaning
- Temperature setting lock
- User / Installer password
- Autonomy: 12 months
- Relay status indicator
- Temperature offset: adjustable according to product positioning
- Temperature setting range: 5 - 37.7°C
- Dimensions: (L x W x H) 120 x 21 x 80 mm

1CR CR308/G - Daily
1CR CR309/S - Weekly
"EASY" series digital analogue programmable thermostat 3V - white color

- Power supply 3V - 2x1.5V AA alkaline
- 2" 2/3 LCD display
- 1 potential-free changeover contact output: 5 (3)A/250V a.c.
- ON / OFF operation with adjustable differential switch 0.3/0.5/0.7 0.9°C or adjustable proportional cycle 7/10/15/20 min
- Temperature adjustment on display
- Temperature levels 2 + anti-freeze fixed at 5°C

- Autonomy: 24 months
- Minimum programming 30 minutes
- Permanent manual operation
- Total ON / OFF function
- Temperature lock
- Telephone control input
- Temperature setting range: 5 - 37.7°C
- Dimensions (L x W x H) 121.5 x 31.5 x 82 mm

THERMOSTATS - WALL MOUNTED

1TP TE028A - Anthracite color - 3V
1TP TE028B - White color - 3V
1TP TE029A - Anthracite color - 230V
1TP TE029B - White color - 230V
"NEXT" series menu driven daily digital thermostat

Backlit display

- Power supply: 3V 2x1,5AA alkaline batteries (TE028)
  230Vac 50-60Hz (TE029)
- Multilanguage menu
- 4.3" backlit LCD display
- Backlit buttons
- Output: 1 potential free changeover contact:
  5 (3) A / 250Va.c.
- ON / OFF operation mode with adjustable differential
  from 0.2 - 1.2 ° C or modulating with control period from
  7 - 20'
- Temperature levels: 2 + anti-freeze
- Temperature adjustable by 0,1°C sets
- Pausing for household cleaning
- Input for telephone programmer or remote contact

- Input for remote probe (TE028)
- Summer / Winter control
- Pump activation program
- Temperature setting lock
- User password
- Installer password
- Backlighting: timed (TE028), timed and fixed (TE029)
- Relay status indicator
- Temperature offset: adjustable according to product
  positioning
- Wall mounting
- Temperature setting range: 5 - 37.7°C
- Dimensions: (L x W x H) 128.5 x 88.5 x 26 mm

Keys lit in different colors depending on consumption

Below 18,0 °C the keys light up in green indicating low consumption

Between 18,1 °C and 21 °C the keys light up in blue indicating optimal consumption

Above 21,1 °C the keys light up in red indicating consumtion over needs

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1PA STE02 NTC temperature probe with 4 m cable, for CRO28

Detection probe with 2x1.5 mm^2 shielded cable - IP65 - Extendable up to max. 20 m.
The probe allows temperature sensing in another room, underfloor or outside.

1TP TE530B - 3V
1TP TE531B - 230V
"ZEFIRO" series 80 x 80 digital thermostat, white color

- Power supply: 3V 2x1.5V AAA alkaline batteries (TE530B)
  230V a.c. 50-60Hz (TE531B)
- 2" 1/3 LCD display
- 1 potential-free changeover contact output:
  5 (3) A / 250Va.c.
- ON / OFF operation with adjustable differential switch
  0.2 - 1,2°C or proportional with 7/20' control period
- Temperature levels 2 + anti-freeze
- Temperature adjustable by 0.1°C sets

- LOW BAT indicator (TE530B)
- Autonomy: 24 months (TE530B)
- Relay status indicator
- SUM/WIN control
- Temperature setting lock
- Temperature offset: adjustable according to product
  positioning
- Temperature setting range: 5 - 37.7°C
- Dimensions (L x W x H) 84 x 23 x 84 mm

1TP TE532B
"ZEFIRO" series 80x80 digital thermostat 230V, for public areas white color

- Power supply 230V a.c. 50-60Hz
- 2" 1/3 LCD display
- 1 potential-free changeover contact output:
  5 (3) A / 250Va.c.
- ON / OFF operation with adjustable differential switch
  0.2 - 1,2°C or proportional with 7/20 minutes control
  period
- Temperature levels 2 + anti-freeze
- Temperature adjustable by 0.1°C sets
- Temperature setting range: 5 - 37.7°C

- Dimensions (L x W x H) 89,7 x 27 x 87,4 mm

Inaccessible controls, reserved to installer:
- temperature SET adjustment
- SUM / WIN control
- on /off
- adjustment settings
- Temperature offset: adjustable according to product
  positioning

1TP TE011B
"SLIM" series 3V digital thermostat, white color

- Power supply: n° 2 Alkaline stilo batteries 1,5 V type AAA (LR0 3)
- 2,6" LCD display
- Multilanguage menu
- Type of output: voltage free relay with COM / NO / NC changeover contact - max 5(3)A/250 V ~
- Type of temperature adjustment: differential ON/ OFF adjustable from 0.2 °C to 1.2 °C or modulating proportional cycles adjustable from 7 to 20 minutes
- Number of temperature levels: 2+antifreeze
- Setting temperature Set: in step of 0.1 °C
- Ambient temperature display range: -5 °C ÷ + 37.7 °C

- Winter and Summer mode)
- Pump activation program
- Temperature set lock
- User password
- Installer password
- Relay ON signal
- Autonomy: more than 1 year
- Wall mount
- Temperature correction: adjustable from -3.0 °C to +3.0 °C
- Dimensions (LxWxH) 120 x 21 x 80 mm

1TP TE400/B - 3V
1TP TE410/B - 230V
"SLIM" series digital thermostat with ON / OFF / NIGHT REDUCTION control, white color

- Power supply: 3V 2x1.5V AAA alkaline batteries (TE400/B) 230V c.a. 50-60Hz (TE410/B)
- 1" LCD display
- 1 potential-free changeover contact output: 8 (2) A / 250V a.c.
- ON / OFF operation with settable differential switch 0.3 / 0.5 / 0.7 / 0.9°C
- Adjustment according to a graduated scale with analogue and digital setting
- Autonomy: 12 months (TE400/B)

- 1 temperature level with continuous adjustment + fixed reduced control -4°C on the set value
- ON / OFF / NIGHT REDUCTION control
- LOW BAT indicator LED
- Relay status indicator LED
- Remote night reduction control input
- Max Temperature setting lock
- Temperature setting range: 5 - 30°C
- Dimensions (L x W x H) 120 x 21 x 80 mm

1TP TE402/B - 3V
1TP TE411/B - 230V
"SLIM" series digital thermostat with SUMMER / OFF / WINTER control, white color

- Power supply: 3V 2x1.5V AAA alkaline batteries (TE402/B) 230V c.a. 50-60Hz (TE411/B)
- 1" LCD display
- 1 potential-free changeover contact output: 8 (2) A / 250V a.c.
- ON / OFF operation with settable differential switch 0.3 / 0.5 / 0.7 / 0.9°C
- Adjustment according to a graduated scale with analogue and digital setting
- Autonomy: 12 months (TE402/B)

- 1 temperature level with continuous adjustment + fixed reduced control -4°C on the set value
- SUMMER / OFF / WINTER control
- LOW BAT indicator LED
- Relay status indicator LED
- Remote night reduction control input
- Max Temperature setting lock
- Temperature setting range: 5 - 30°C
- Dimensions (L x W x H) 120 x 21 x 80 mm

1TP TE500A - Anthracite color
1TP TE500B - White color
"ZEFIRO" series electronic thermostat with LED

- Power supply 230V a.c. 50-60Hz
- 1 potential-free changeover contact output: 8 (2) A / 250V a.c.
- ON / OFF operation with fixed differential at 0.4°C
- Temperature adjustment on graduated scale with mechanical index set-point
- 1 temperature level with continuous adjustment
- Wall mounting or semi recess

- Remote input for night reduction -4°C on the set-point value
- Set-point with mechanical max temperature lock
- Relay status indicator LED
- Mains connection indicator LED
- Temperature setting range: 5 - 30°C
- Dimensions (L x W x H) 120 x 27.5 x 81 mm

1TP TE501A - Anthracite color
1TP TE501B - White color
"ZEFIRO" series electronic thermostat with ON / OFF control

- Power supply 230V a.c. 50-60Hz
- 1 potential-free changeover contact output: 8 (2) A / 250V a.c.
- ON / OFF operation with fixed differential at 0.4°C
- ON / OFF control
- Temperature adjustment on graduated scale with mechanical index set-point
- 1 temperature level with continuous adjustment

- Wall mounting or semi recess
- Remote input for night reduction -4°C on the set-point value
- Set-point with mechanical max temperature lock
- Relay status indicator LED
- Mains connection indicator LED
- Temperature setting range: 5 - 30°C
- Dimensions (L x W x H) 120 x 27.5 x 81 mm

1TP TE502B
"ZEFIRO" series electronic thermostat with floor probe, white color

- Power supply 230V a.c. 50-60Hz
- 1 potential-free changeover contact output: 8 (2) A / 250V a.c.
- ON / OFF operation with fixed differential at 0.4°C
- ON / OFF control
- Temperature adjustment on graduated scale with mechanical index set-point
- 1 temperature level with continuous adjustment
- Wall mounting
- Remote input for night reduction -4°C on the set-point value
- Set-point with mechanical max temperature lock
- Relay status indicator LED
- Mains connection indicator LED
- Temperature setting range: 0 - +60°C
- Dimensions (L x W x H) 120 x 27.5 x 81 mm

1TP TE503A - Anthracite color
1TP TE503B - White color
"ZEFIRO" series electronic thermostat with SUMMER / WINTER control

- Power supply 230V a.c. 50-60Hz
- 1 potential-free changeover contact output: 8 (2) A / 250V a.c.
- ON / OFF operation with fixed differential at 0.4°C
- SUMMER / OFF / WINTER control
- Temperature adjustment on graduated scale with mechanical index set-point
- 1 temperature level with continuous adjustment
- Wall mounting or semi recess
- Remote input for night reduction -4°C on the set-point value
- Set-point with mechanical max temperature lock
- Relay status indicator LED
- WINTER / SUMMER indicator LED
- Mains connection indicator LED
- Temperature setting range: 5 - 30°C
- Dimensions (L x W x H) 120 x 27.5 x 81 mm

1TP TE565B
"ZEFIRO" series electronic thermostat for Fan Coil with SUMMER / OFF / WINTER control, white color

- Power supply 230V a.c. 50-60Hz
- 1 polarized NO contact output: 5 (2) A / 250V a.c.
- Proportional operation with fixed control period
- SUMMER / OFF / WINTER control
- I° II° III° Speed control
- Temperature adjustment on graduated scale with mechanical index set-point
- 1 temperature level with continuous adjustment
- Set-point with mechanical max temperature lock
- Relay status indicator LED
- SUMMER / WINTER indicator LED
- Power supply indicator LED
- Temperature setting range: 5 - 30°C
- Dimensions (L x W x H) 120 x 27.5 x 81 mm

1TP TE566B
Electronic thermostat "EUROPA" series for "Fan Coil" with SUMMER / OFF / WINTER control, white color

- Power supply 230V a.c. 50-60Hz
- 1 polarized NO contact output: 5 (2)A / 250V a.c.
- Proportional operation with fixed control period
- SUMMER / OFF / WINTER control
- Temperature adjustment on graduated scale with mechanical index set-point
- I° II° III° Speed control
- 1 Temperature level with continuous adjustment
- Set-point with mechanical max temperature lock
- Relay status indicator LED
- Temperature setting range: 5 - 30°C
- Dimensions (L x W x H) 74 x 36 x 74 mm

1TP TE041
"EUROPA" series electronic thermostat, with SUMMER / WINTER control, white color

- Power supply 230V a.c. 50-60Hz
- 1 potential-free changeover contact output: 5 (2) A / 250V a.c.
- ON / OFF operation with adjustable differential switch 0,2 - 2,5°C
- SUMMER / WINTER control
- 1 Temperature level with continuous adjustment
- Set-point with mechanical temperature lock
- Relay status indicator LED
- Temperature setting range: 5 - 30°C
- Dimensions (L x W x H) 74 x 36 x 74 mm

1TP TE046
"EUROPA" series electronic thermostat, with ON / OFF control, white color

- Power supply 230V a.c. 50-60Hz
- 1 potential-free changeover contact output: 5 (2) A / 250V a.c.
- ON / OFF operation with adjustable differential switch 0,2 - 2,5°C
- ON / OFF control
- 1 Temperature level with continuous adjustment
- Set-point with mechanical temperature lock
- Relay status indicator LED
- Temperature setting range: 5 - 30°C
- Dimensions (L x W x H) 74 x 36 x 74 mm

1TP TE065
"EUROPA" series electronic thermostat for "Fan Coil" with SUMMER / OFF / WINTER control, white color

• Power supply 230V a.c. 50-60Hz
• 1 polarized NO contact output: 5 (2) A / 250V a.c.
• Proportional operation with fixed control period
• SUMMER / OFF / WINTER control
• 0 I° II° III° Speed control
• Relay status indicator LED

• Temperature adjustment on graduated scale with mechanical index set-point
• 1 Temperature level with continuous adjustment
• Set-point with mechanical temperature lock
• Temperature setting range: 5 - 30°C
• Dimensions (L x W x H) 74 x 36 x 74 mm

1TG TEG130
"TEG" series gas expansion thermostat without LED indicator, white color

• 1 potential-free changeover contact output: 16(2,5)A/250V~
• ON / OFF operation with fixed differential switch
• 1 temperature level with continuous adjustment
• Temperature adjustment on graduated scale with mechanical index set-point

• Set-point with mechanical temperature lock
• ON / OFF indicator LED of the connected load
• Temperature setting range: 5 - 30°C
• Dimensions (L x W x H) 80 x 43,5 x 80 mm

1TG TEG131
"TEG" series gas expansion thermostat with LED indicator, white color

• Power supply 230V a.c. 50-60Hz
• 1 potential-free changeover contact output: 16(2,5)A/250V~
• ON / OFF operation with fixed differential switch
• 1 temperature level with continuous adjustment
• Temperature adjustment on graduated scale with

mechanical index set-point
• Set-point with mechanical temperature lock
• ON / OFF indicator LED of the connected load
• Temperature setting range: 5 - 30°C
• Dimensions (L x W x H) 80 x 43,5 x 80 mm

1TG TEG132
"TEG" series gas expansion thermostat with LED indicator and ON / OFF control, white color

• Power supply 230V a.c. 50-60Hz
• 1 potential-free changeover contact output: 16(2,5)A/250V~
• ON / OFF operation with fixed differential switch
• ON / OFF control
• 1 temperature level with continuous adjustment

• Temperature adjustment on graduated scale with mechanical index set-point
• Set-point with mechanical temperature lock
• ON / OFF indicator LED of the connected load
• Temperature setting range: 5 - 30°C
• Dimensions (L x W x H) 80 x 43,5 x 80 mm

1TG TEG136
"TEG" series gas expansion thermostat with LED indicator and SUMMER / WINTER control, white color

• Power supply 230V a.c. 50-60Hz
• 1 potential-free changeover contact output: 16(2,5)A/250V~
• ON / OFF operation with fixed differential switch
• SUMMER / WINTER control
• 1 temperature level with continuous adjustment

• Temperature adjustment on graduated scale with mechanical index set-point
• Set-point with mechanical temperature lock
• ON / OFF indicator LED of the connected load
• Temperature setting range: 5 - 30°C
• Dimensions (L x W x H) 80 x 43,5 x 80 mm

1PA TEG04N "TEG"series base for thermostat installation

Base for TEG" thermostat installation "in round and / or rectangular recessed boxes

FUNCTIONAL FEATURES

The control boxes are electronic devices equipped with 4-8 inputs and 4-8 outputs for control of opening / closing of the electro valves mounted on distribution manifolds. Intelligent operation mode to start or stop any circulation pump installed in the hydraulic distribution box and / or the circulation pump of the individual boiler and / or the zone valve. When all the electro valves are close, the control box stops the pump / zone valve. When even only one of electro valves is open, the control box restarts the pump or the zone valve.
Input for the connection of a time switch for programming the operating times of the heating system of the apartment (and of offices) and input for remote control switching of the system for winter / summer mode.
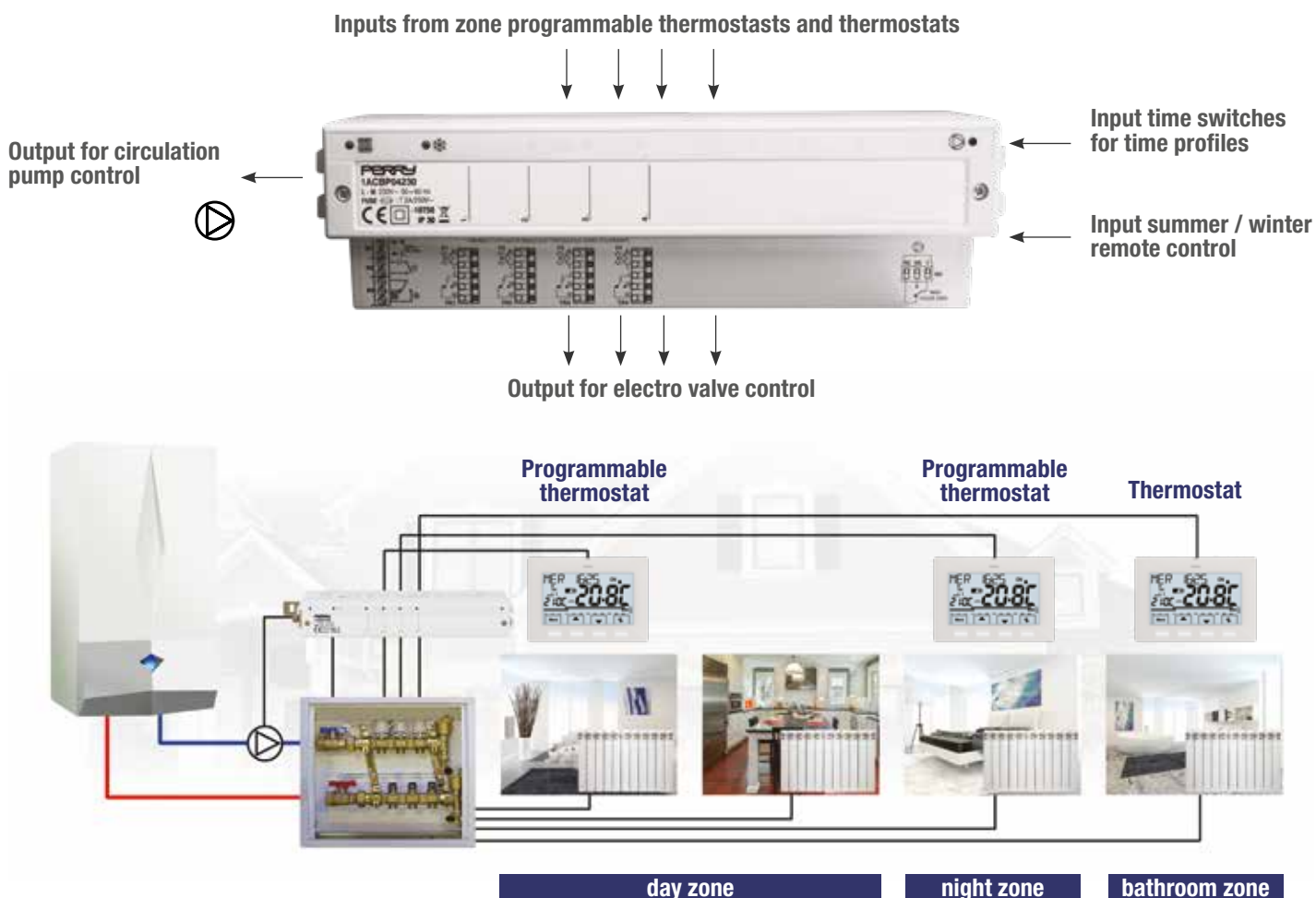
1AC BP04230
4-zones control box with 4 +1 relay outputs

- Power supply 230V a.c. - 50Hz
- Potential-free changeover contacts: 10 A / 250V a.c.
- 4 controllable zones
- Output for active pump control with at least one open zone valve
- Output controlled by a time switch
- Remotely controlled SUM / WIN output

- WINTER operation indicator LED
- SUMM ER operation indicator LED
- ON / OFF pump
- control indicator LED
- Protection degree IP 30
- Dimensions (L x W x H) 250 x 76 x 43 mm

1AC BP08230
4-zones control box with 8 +1 relay outputs

- Power supply 230V a.c. - 50Hz
- Potential-free changeover contacts: 10 A / 250V a.c.
- 8 controllable zones
- Output for active pump control with at least one open zone valve
- Output controlled by a time switch
- Remotely controlled SUM / WIN output

- WINTER operation indicator LED
- SUMM ER operation indicator LED
- ON / OFF pump
- control indicator LED
- Protection degree IP 30
- Dimensions (L x W x H) 250 x 76 x 43 mm

Inputs from zone programmable thermostasts and thermostats

Output for circulation pump control

Input time switches for time profiles

Input summer / winter remote control

Output for electro valve control

Programmable thermostat

Programmable thermostat

Thermostat

| day zone | night zone | bathroom zone |

1TX CRTX05 Wireless weekly digital programmable thermostat with 868.35 MHz RF output - white color
Product complying the radio devices Directive 2014/53/UE and RoHS 2011/65/UE

- Power supply 3V - 2x1.5V AA alkaline batteries
- 3" ¾ LCD display
- ON / OFF operation with adjustable differential switch 0.2 - 0.7°C
- 2 temperature levels + anti-freeze (excludable or adjustable)
- 3 preset programs (modifiable)
- Minimum programming time 30 minutes
- MASTER function
- 3 years autonomy

- Temperature settings protected by password
- Adjustable temperature range: 5 - 39,9°C
- Automatic daylight saving time change
- SUMMER / WINTER option
- Possibility of correction of the detected room temperature (OFFSET).
- Interruption button for cleaning operations
- Range: 30 - 130m
- Dimensions: (L x W x H) 120 x 21 x 80 mm

1PA BTCRTX01 Table base for wireless programmable thermostat

1TX TETX04 Wireless daily digital thermostat with 868.35 MHz RF output - white color
Product complying the radio devices Directive 2014/53/UE and RoHS 2011/65/UE

- Power supply 3V - 2x1.5V AA alkaline batteries
- 2" ⅓ LCD display
- ON / OFF operation with adjustable differential switch 0.2 - 0.7°C
- 2 temperature levels + anti-freeze (excludable or adjustable)
- 3 years autonomy
- SUMMER / WINTER option
- Temperature settings protected by password

- Operational safety is ensured by a double transmission of information to the receiver
- Possibility of correction of the detected room temperature (OFFSET).
- Indication of ON status and LOW battery
- Adjustable temperature range: 5 - 39,9°C
- Range: 30 - 130m
- Dimensions (L x W x H): 84 x 23 x 84 mm

1PA BTTETX01 Table base for thermostat TETX04

1TX CCRX01 Status control unit zone 868.35MHz - white color
Product complying the radio devices Directive 2014/53/UE and RoHS 2011/65/UE

The control unit activates the load (pump boiler) with at least one open electronic valve

- Power supply 230V a.c. 50Hz
- 1 potential-free changeover contact output: 5 (2) A / 250V

- Reception frequency: 868.35Mhz
- RF signal level indicator
- Dimensions (L x W x H) 133 x 25 x 90 mm

1TX RX01/P 1-zone wall-mounted radio receiver - white color
1TX RX02/P 2-zones wall-mounted radio receiver + 1 circulation pump output - white color
Product complying the radio devices Directive 2014/53/UE and RoHS 2011/65/UE

- Power supply 230V a.c. 50-60Hz
- Reception frequency: 868.35Mhz
- 1TX RX01/P: 1 potential-free changeover contact output: 5 (2)A / 250V a.c.
  1TX RX02/P: 2 potential-free changeover contacts output: 5 (2) A / 250V + 1 Output to control the

  circulation pump 5 (2) A / 250V a.c.
- Manual ON / OFF control
- RF signal level indicator
- Dimensions (L x W x H) 133 x 25 x 90 mm

1TX RX0801/P 8-zones wall-mounted radio receiver + 1 circulation pump output - white color
Product complying the radio devices Directive 2014/53/UE and RoHS 2011/65/UE

- 18V power supply via BUS
- Reception frequency: 868.35Mhz
- BUS RS 485 output for 8-output control + 1 circulation pump control output
- Manual ON / OFF control

- RF signal level indicator
- Signal to control the activated circulation pump
- Adjustable pump control delay 0" or 120"
- Dimensions (L x W x H) 133 x 25 x 90 mm

1TX BC0401/230 4-zones Control box
1TX BC0801/230 8-zones Control box
Product complying the radio devices Directive 2014/53/UE and RoHS 2011/65/UE

- Power supply 230V a.c. 50-60Hz
- 4 polarized outputs at 230V (1TX BC0401/230)
  8 polarized outputs at 230V (1TX BC0801/230)
- Load 8 (2) A / 250V a.c. + 1 output to control the circulation pump 8 (2) A / 250V a.c.
- IP 32 (IP 52 with accessory cable glands)

- Connection to receiver RX0801/P with BUS RS 485
- Fault indicator LED
- ON / OFF pump status indicator LED
- mains presence indicator LED
- ON / OFF zone status indicator LED
- Dimensions (L x W x H) 250 x 76 x 43 mm

1TX VTRX02 Electronic actuator for water radiators with 868,35 MHz RF transceiver - white color
Product complying the radio devices Directive 2014/53/UE and RoHS 2011/65/UE

• Power supply 3V - 2x1.5V type C alkaline batteries
• Approx. lifetime 3 years
• ON / OFF operation
• RF signal level indicator
• IP 40

• Fault and / or battery charge indicator
• Valve opening / closing condition indicator
• Threaded coupling for radiators with adaptation ring nut for the main thermostatic valves
• Dimensions: (L x W x H): 62 x 70 x 97 mm

KITS FOR EXISTING SYSTEMS

1TX CRTX05RX01
Kit including 1 radio programmable thermostat + 1 wall-mounted 1-zone radio receiver 1TX RX01/P

CRTX05 programmable thermostat adjusts the time profiles and the temperature settings in the house. The RX01/P radio receiver activates / deactivates the connected load (pump, boiler, ...) according to the heat demand of the programmable thermostat.

1TX TETX04RX01
Kit including 1 radio thermostat + 1 wall-mounted 1-zone radio receiver 1TX RX01/P

TETX04 thermostat adjusts the temperature settings in the house. The RX01/P radio receiver activates / deactivates the connected load (pump, boiler, ...) according to the heat demand of the thermostat.

ACCESSORIES

1PA ASVT01 Angle adapter for electronic valves on radiators
It allows the vertical installation of the electronic valves on the radiators

1PA PPBC01 Cable glands for control boxes
Package consists of n° 11 cable glands for control boxes, protection degree IP52
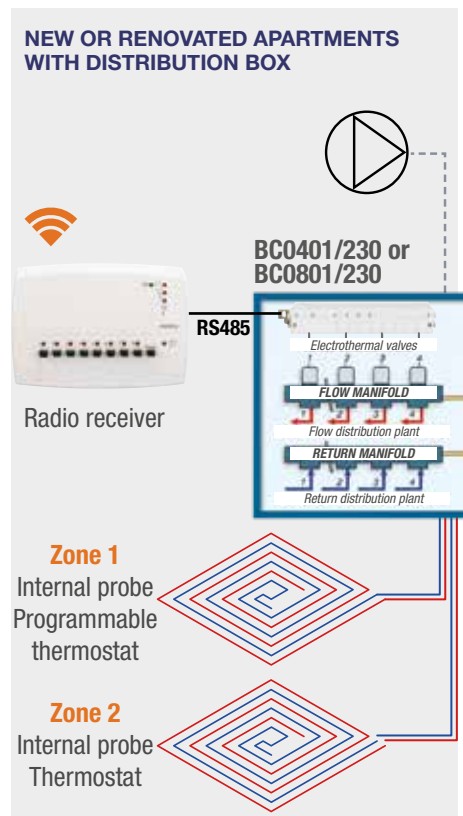
Zone 1
Programmable thermostat
CRTX05

Zone 2
Thermostat
TETX04

SINGLE OR CONDOMINIUM APARTMENT WITH HORIZONTAL PIPING SYSTEM

Pump

Zone 1
Internal probe Programmable thermostat
VTRX02

Zone 2
Internal probe Thermostat

CONDOMINIUM APARTMENT WITH VERTICAL PIPING SYSTEM

Zone 1
Internal probe Programmable thermostat
VTRX02

Zone 2
Internal probe Thermostat

NEW OR RENOVATED APARTMENTS WITH DISTRIBUTION BOX

BC0401/230 or BC0801/230

RS485

Electrothermal valves
FLOW MANIFOLD
Flow distribution plant
RETURN MANIFOLD
Return distribution plant

Radio receiver

Zone 1
Internal probe Programmable thermostat

Zone 2
Internal probe Thermostat

1TM TE082
Electronic thermostat with adjustment on 2 temperature levels Comfort and Reduction - 2 DIN

- Power supply: 230V a.c. - 50Hz
- 1 potential-free changeover contact output:
  16 (3) A / 250V a.c.
- ON / OFF operation with adjustable differential switch
  0.5-2.5°C
- ON / OFF / ANTI-FREEZE control
- Comfort / reduction / automatic remote selection control
- 2 graduated scales with adjustment index
- 2 temperature levels with continuous adjustment
- Adjustable night reduction remote input

- Set-point with mechanical temperature lock
- Relay status indicator LED
- Comfort indicator LED
- Night reduction indicator LED
- Equipped with NTC-type remote probe, with white and anthracite caps to be recessed in wiring devices blind plug, extendedable up to max. 100 m with shielded cable
- Temperature setting range: 5 - 30°C
- Dimensions (L x W x H) 35 x 60 x 128 mm

1TM TE083 ON / OFF / ANTI-FREEZE
1TM TE084 SUMMER / OFF / WINTER
Electronic thermostat - 2 DIN

- Power supply 230V a.c. - 50Hz
- 1 potential-free changeover contact output:
  16 (3) A / 250V a.c.
- ON / OFF operation with adjustable differential switch
  0.5-2.5°C
- Graduated scale with adjustment index
- 1 temperature level with continuous adjustment
- Adjustable night reduction remote input

- Relay status indicator LED
- Night reduction indicator LED
- Equipped with NTC-type remote probe, with white and anthracite caps to be recessed in wiring devices blind plug, extendedable up to max. 100 m with shielded cable
- Temperature setting range: 5 - 30°C
- Dimensions (L x W x H) 35 x 60 x 128 mm

1TM TE052/M
Electronic thermostat for switchboards - 2 DIN

For switchboards cooling and anti-condensation

- Power supply 230V a.c. - 50Hz
- 1 potential-free changeover contact output:
  16 (3)A / 250V a.c.
- ON / OFF operation with fixed differential switch 2°C
- 2 graduated scales with adjustment index
- Cooling adjustment range +20°C / +60°C
- Anticondensation adjustment range +0°C / +10°C
- 2 temperature levels with continuous adjustment

- Remote probe input
- Relay status indicator LED
- Damaged probe indicator LED
- Equipped with NTC-type remote probe, with white and anthracite caps to be recessed in wiring devices blind plug, extendedable up to max. 100 m with shielded cable
- Dimensions (L x W x H) 35 x 60 x 128 mm

1TM TE075 -30 / +30°C
1TM TE076 -20 / +40°C
1TM TE077 0 / +60°C
1TM TE078 40 / +100°C
Electronic thermostat - 2 DIN

- Power supply 230V a.c. - 50Hz
- 1 potential-free changeover contact output:
  16 (3) A / 250V a.c.
- ON / OFF operation with fixed differential switch 1°C
- Graduated scale with adjustment index
- 1 temperature level with continuous adjustment

- Remote probe cable length max. 100m
- Remote probe input
- Relay status indicator LED
- Damaged probe indicator LED
- Dimensions (L x W x H) 35 x 60 x 128 mm

1TM STE01 PTC temperature detection probe with 1.5m cable

Detection probe with shielded cable 2 x 1.5 mm^2 - IP 68 extendable up to max. 100m

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1TM STE01/4 PTC temperature detection probe with 4m cable

Detection probe with shielded cable 2 x 1.5 mm^2 - IP 68 extendable up to max. 100m

MECHANICAL CONTACT THERMOSTATS

1TC TB060
Contact thermostat for piping

- 1 potential-free changeover contact output:
  16 (5) A / 250V a.c.
- ON / OFF operation with fixed differential switch 4 ± 2°C
- Graduated scale with adjustment index
- 1 temperature level with continuous adjustment

- Installation in piping with supplied elastic strap
- Adjustment range +30°C / +90°C
- IP 20
- Dimensions (L x W x H) 54 x 56 x 99 mm

1TC TB065
Thermostat, immersion bulb

- 1 potential-free changeover contact output:
  16 (5) A / 250V a.c.
- ON / OFF operation with fixed differential switch 4 ± 2°C
- Graduated scale with adjustment index
- 1 temperature level with continuous adjustment
- Bulb diameter 8mm

- Bulb for immersion installation
- Adjustment range +30°C / +90°C
- IP 20
- Dimensions (L x W x H) 54 x 72 x 98.5 mm

1TC TB071
Thermostat with safety limiting device

- 1 potential-free changeover contact output:
  16 (5) A / 250V a.c.
- ON / OFF operation with fixed differential switch 4 ± 2°C
- Graduated scale with adjustment index
- 1 temperature level with continuous adjustment
- Bulb diameter 14mm

- Bulb for immersion installation
- Adjustment range +30°C / +90°C
- Safety limiting device T=100°C
- IP 20
- Dimensions (L x W x H) 108 x 56 x 98.5 mm

1TC TB081
Thermostat for hot air generators

- 1 potential-free changeover contact output:
  16 (5) A / 250V a.c.
- ON / OFF operation with fixed differential switch 4 ± 2°C
- Graduated scale with adjustment index
- 1 temperature level with continuous adjustment
- Bulb diameter 14mm

- Bulb for immersion installation
- Adjustment range +30°C / +90°C
- IP 20
- Installation in hot air generators
- Dimensions (L x W x H) 108 x 56 x 98.5 mm

1TC TB088
Thermostat with external probe +4 / +40°C

- 1 potential-free changeover contact output:
  16 (5) A / 250Va.c.
- ON / OFF operation with fixed differential switch 1,5 ± 1°C
- Graduated scale with adjustment index
- 1 temperature level with continuous adjustment

- Adjustment range +4°C / +40°C
- IP 20
- Dimensions (L x W x H) 72 x 45.5 x 136 mm

1TC TB090 -5 / +35°C
1TC TB091 +20 / +60°C
Thermostat with external probe

- 1 potential-free changeover contact output:
  16 (5) A / 250V a.c.
- ON / OFF operation with fixed differential switch 1,5 ± 1°C
- Graduated scale with adjustment index

- 1 temperature level with continuous adjustment
- IP 54
- Dimensions (L x W x H) 61 x 60 x 105 mm

FOR A HEALTHY AND MOLD-FREE ENVIRONMENT

In always more isolated environments, due to energy efficiency interventions such as thermal coats and the replacement of windows, the installation of the **Controlled Mechanical Ventilation** is considered to be of fundamental importance both to ensure a good quality level of the air, and to prevent the formation of mould.
The **Controlled Mechanical Ventilation** in the housing unit in fact allows, through automatic cycles of extraction and inflow, the constant exchange of air in the rooms with a low loss of thermal energy thanks to the ceramic exchanger to safeguard energy consumption from heating.

Through the outflow and inflow cycles the **Perry Wi-fi CMV** guarantees the constant exchange of air in the room, with low loss of thermal energy in order to safeguard heating energy consumption.
The Perry Wi-Fi CMV is equipped with temperature and humidity sensors, that allow you to set the ventilation modes independently, preventing mould and humidity. The sensors also allow you to control by remote the state of humidity % and temperature of the rooms
The Perry Wi-Fi CMV built with 4.0 technology, through App that can be downloaded on smartphone, allows you to control the temperature and humidity of the rooms by remotely activating the ventilation of the rooms. Very useful function to avoid the accumulation of humidity and mould in second homes.
The Perry Wi-Fi CMV can be used as a ventilation system for a single room or with multiple units installed as a ventilation system for the entire housing unit.
The Perry Wi-Fi CMV the most advanced technology to ensure good air quality in private homes, in the tertiary sector and in public buildings.

EC Motor Filter Filter Outside grid
Internal panel with magnetic fixing system Internal mounting Plate Ceramic Heat Exchange Core Extendable ducting
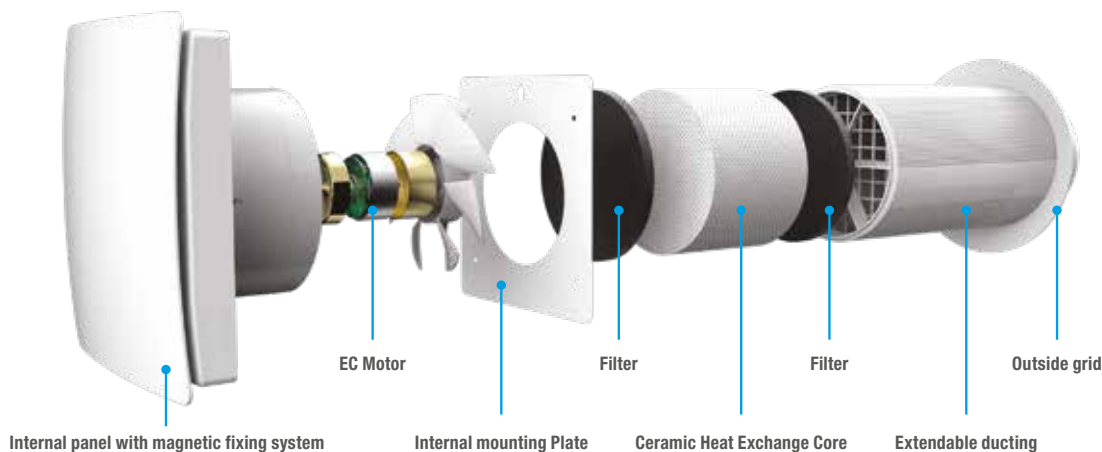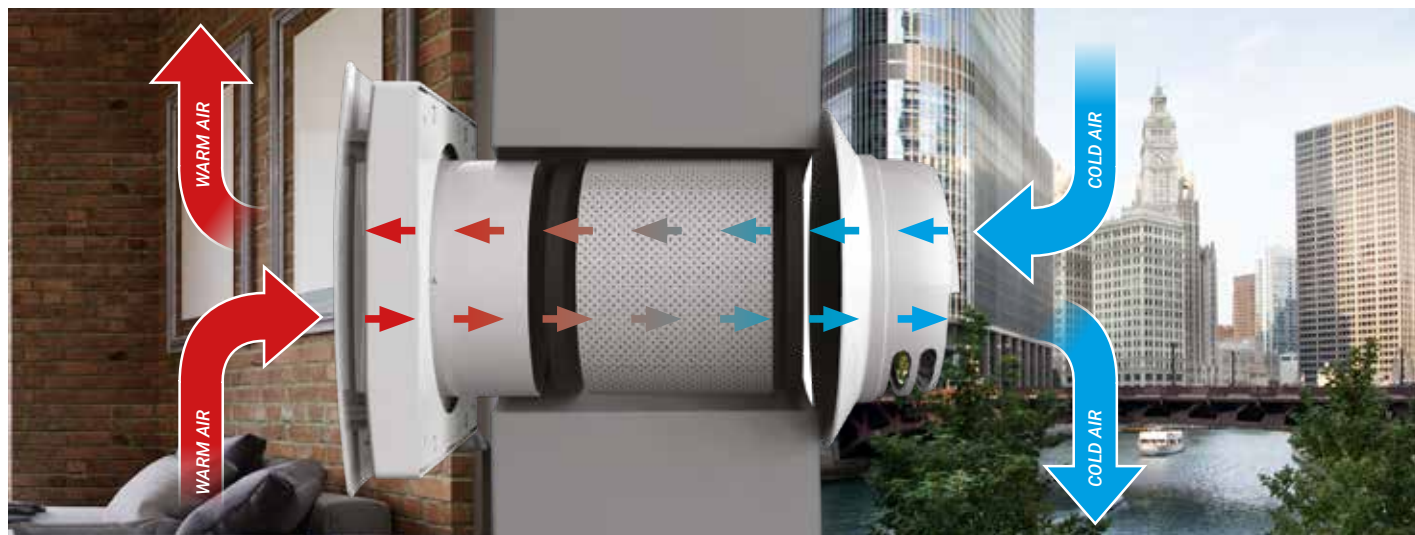
During the extraction cycle (65 seconds) the **Wi-Fi CMV** extracts stale and humid air from the room.
Before being expelled outside, the thermal energy (up to 93%) of the extracted air is stored in the heat exchanger, built in ceramic with high heat recovery capacity.
During the following inflow cycle, the fan draws into clean air from the outside to which the thermal energy previously accumulated by the heat exchanger is transferred.
The intake air, before being introduced into the rooms, is filtered from external contaminating elements through the filters installed in the body of the CMV, thus ensuring healthy environments.
The alternating cycle of the CMV functions allows the rooms to be ventilated and healthy while keeping the internal temperature constant.

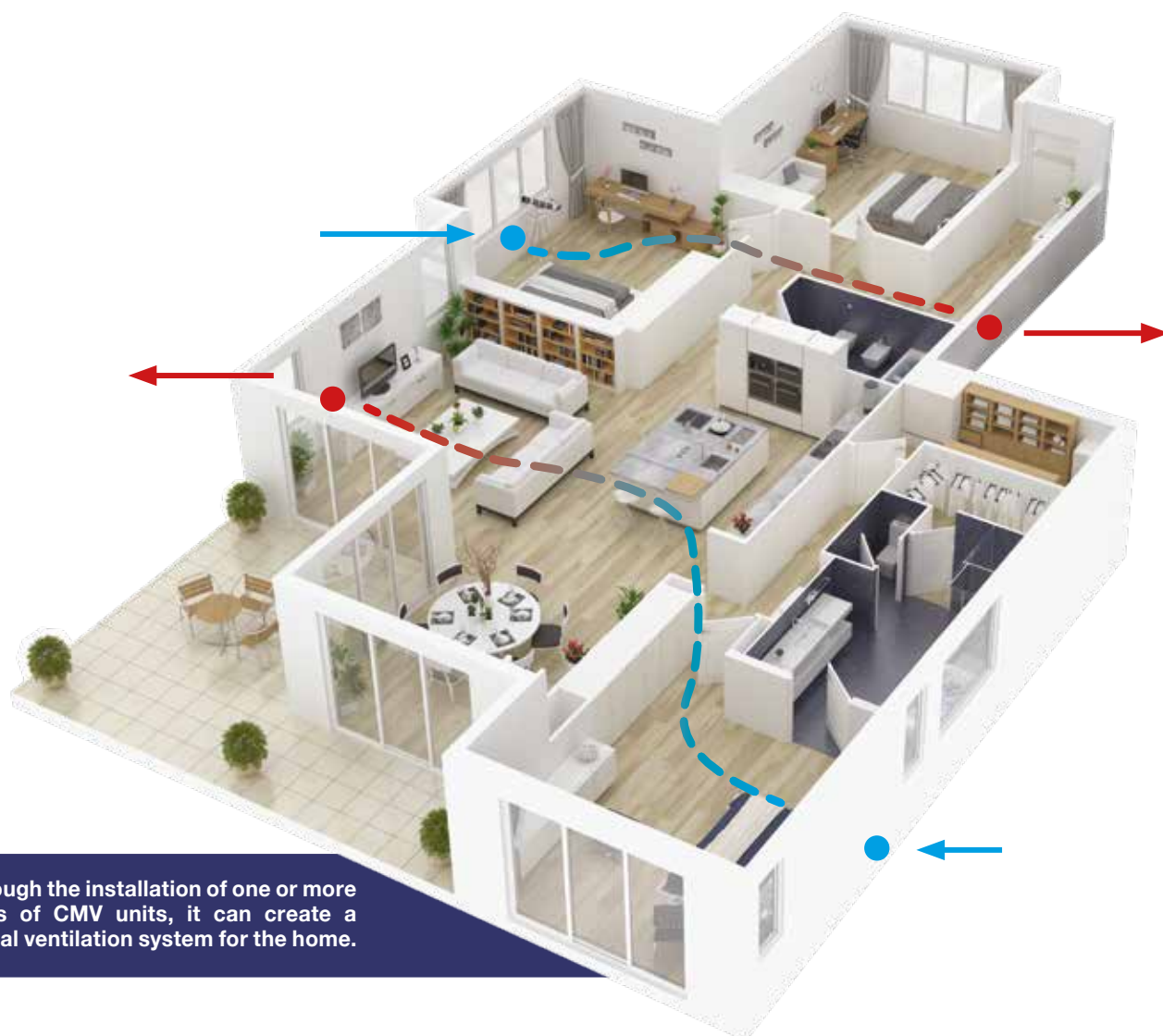WARM AIR COLD AIR
WARM AIR COLD AIR

1st Extraction Cycle

For 65 seconds the fan extracts the hot and stale air present in the room.

2nd Entry Cycle

For 65 seconds, outside air is drawn into the room.
Then the extraction cycle starts again.

The Perry Wi-Fi CMV can be used as a ventilation system for each individual room.

Through the installation of one or more pairs of CMV units, it can create a global ventilation system for the home.

WI-FI CONTROLLED MECHANICAL VENTILATION CMV

1VC VMC001WIFI Wi-Fi Controlled Mechanical Ventilation unit CMV

- Power supply 220V
- Android and iOS Apps
- Wi-fi
- Weekly programming. It operates with Google Home™ and Amazon Alexa™
- High efficiency (up to 93%) regenerative ceramic heat exchanger with extraction handle
- Night function
- Double anti impurity filter

- Low noise brushless motor from ±4 ÷ 55 dB
- Material: ABS anti UV and antistatic
- Telescopic tube standard length 500 mm Ø 159 mm
- External grid with flexible membrane
- Flow straightener for greater performance
- IPX4
- Dimensions (LxWxH) 242x242x393,87/643,87 mm

OPERATING MODE

The product has three ventilation modes:
- **Inflow mode:** the product inflows fresh air
- **Extraction mode:** the product extracts the air from the room
- **Ventilation Cycle mode:** the product works in a reversible way with heat and humidity recovery.

In Ventilation Cycle mode, the CMV in the 1st Cycle of 65 seconds extracts the air from the environment and in the 2nd Cycle of 65 seconds it introduces air into the environment.

1st Cycle: for 65 seconds the stale air is extracted from the room. The air flow passing through the exchanger heats it (up to 93%) and humidifies it. At the end of the 65 seconds, the 2nd Cycle starts.

2nd Cycle: for 65 seconds air is taken from the outside. The air withdrawn passing through the exchanger is heated and humidified in order to be introduced into the environment, maintaining its thermal balance. The filters supplied with the VMC allow the introduction of air cleaned from external dust.
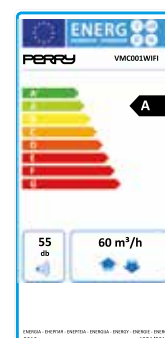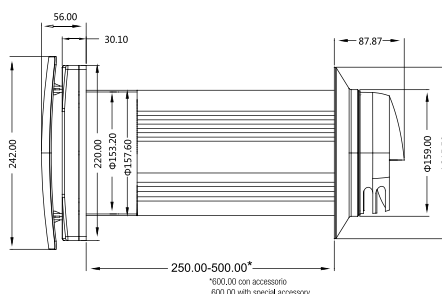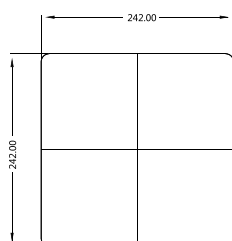
ACCESSORIES

1PA TE160400 PVC extension tube Ø 160 mm, L = 400 mm

1PA GE001 Outside grid

Outside grid, to be used with extension tube Art. 1PATE160400.
Mounting with insertion from the interior of the apartment.

1PA FHEPA001 High efficiency HEPA filter

High efficiency HEPA filter to intercept particles as small as 0.3 µm including pollen, dust, mould, bacteria and viruses. Improves the healthiness of the air introduced.

1PA FCA001 Activated carbon filter

Activated carbon filter in order to prevent the introduction of smells, gases and chemicals substances from the air. Improves the quality of the air introduced.

1PA FG00 G3 filter

G3 filter for the interception of particles of size between 1 and 10 µm present in the air, such as dust and dirt.
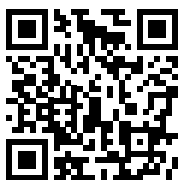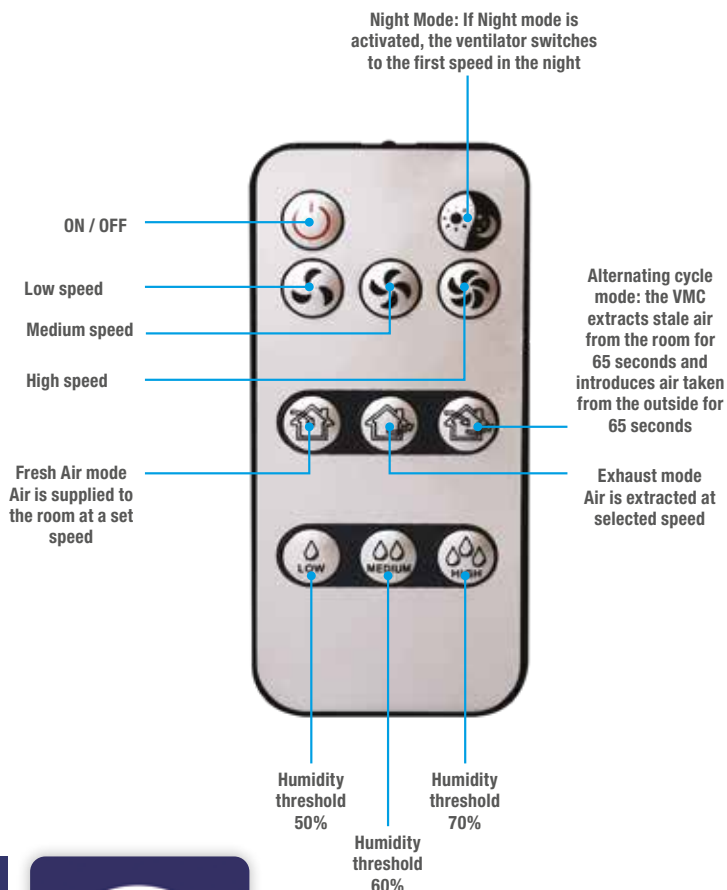
USE WITH WIFI CONNECTION

Thanks to the simple and intuitive graphics of the App (for Android and iOS) it is possible to configure and use the Perry Wi-Fi CMV by remote. Through the App it is possible to create scenarios to manage the combined operation of multiple devices.
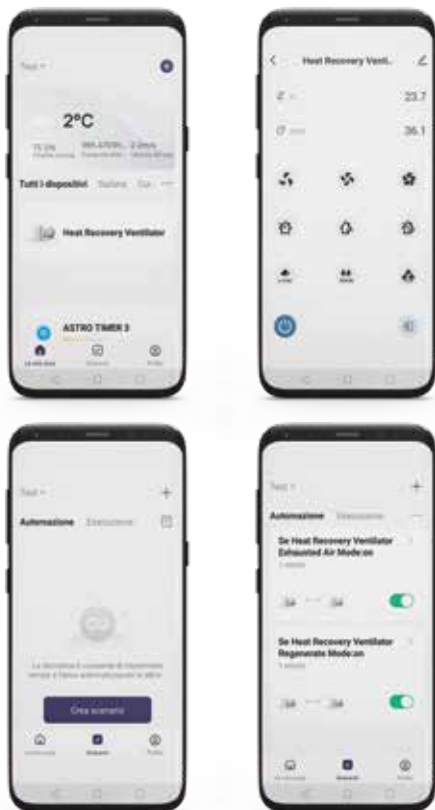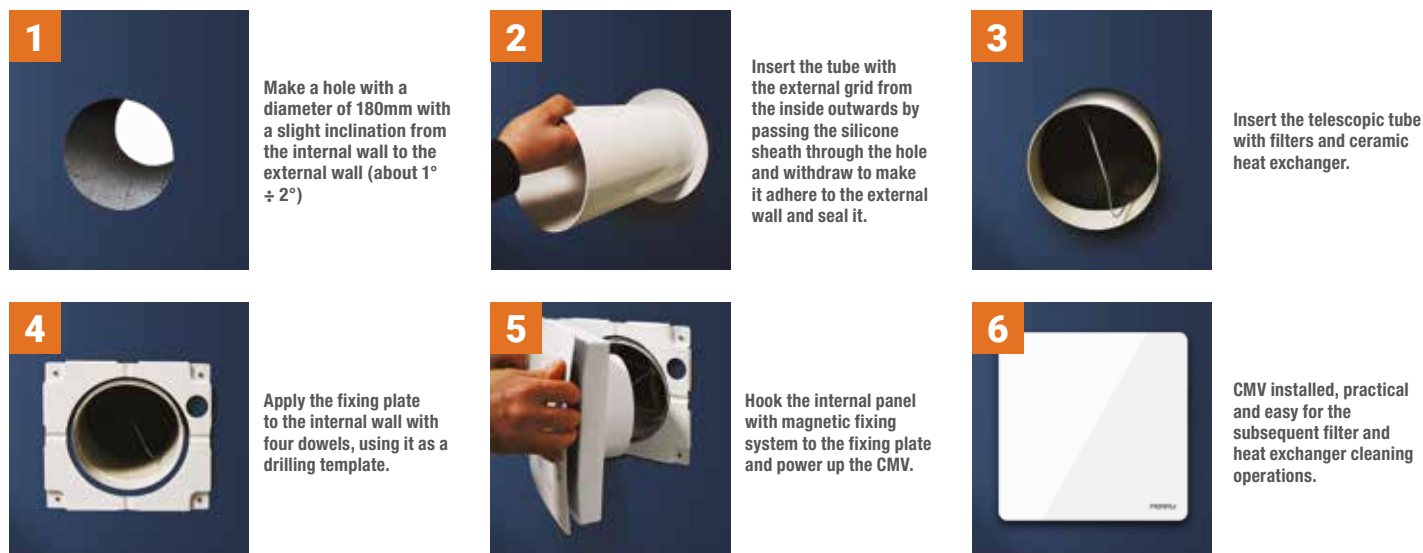
USE WITH INFRARED REMOTE CONTROL

For any eventuality, the Perry Wi-Fi CMV is equipped with an infrared transmitter for autonomous management of the same.

Night Mode: If Night mode is activated, the ventilator switches to the first speed in the night

ON / OFF

Low speed

Medium speed

High speed

Alternating cycle mode: the VMC extracts stale air from the room for 65 seconds and introduces air taken from the outside for 65 seconds

Fresh Air mode Air is supplied to the room at a set speed

Exhaust mode Air is extracted at selected speed

Humidity threshold 50%

Humidity threshold 60%

Humidity threshold 70%

Download the Perry Smart App for Android and iOS by searching the App Store or by scanning the QR code which links to the product page.

PRACTICAL AND FUNCTIONAL INSTALLATION FROM INSIDE THE HOME

1
Make a hole with a diameter of 180mm with a slight inclination from the internal wall to the external wall (about 1° ÷ 2°)

2
Insert the tube with the external grid from the inside outwards by passing the silicone sheath through the hole and withdraw to make it adhere to the external wall and seal it.

3
Insert the telescopic tube with filters and ceramic heat exchanger.

4
Apply the fixing plate to the internal wall with four dowels, using it as a drilling template.

5
Hook the internal panel with magnetic fixing system to the fixing plate and power up the CMV.

6
CMV installed, practical and easy for the subsequent filter and heat exchanger cleaning operations.

Contact closing with zero load and "ZERO CROSSING" method
The relay contacts will open and close only in the instant when the voltage is equal to zero. This method allows to increase the contact lifetime by optimizing the activation and deactivation of the load. ZERO CROSSING products are particularly suitables for controlling electronic lamps, LED and energy-saving lamps.

1SP SP044B - IP44
1SP SP055B - IP55
Wall-mounted motion detector "ZERO" range - white color

- Equipped with adapter for installation in corners.
- Possibility of limiting the detection range by obscuring the segments of the lens either horizontally or vertically.

- Power supply 230V a.c. ± 10% 50 Hz
- Maximum lighting load:
  incandescent lamps 1.800W
  fluorescent lamps (uncompensated) 480W
  fluorescent lamps (compensated in parallel) 250W
  CFL / LED lamps (230V) 7W ÷ 23W max 5 lamps
- Protection degree IP44 (SP044) - IP55 (SP055)
- Wire section at terminals 0,75..... 2,5 mm²
- Degree of pollution normal
- Detection angle up to 220°

- Detection distance 12 m
- Adjustment of deactivation delay from about 35" to about 20'
- Lux adjustment from 5 to 1.000 LUX
- Warm Up Time when first powered or after blackout about 40"
- Operating temperature from -20°C to +40°C
- Storing temperature from -20°C to +70°C
- CE marking reference standard LVD/EMC EN60669-2-1
- Dimensions (L x W x H) 72,6 x 91,6 x 93,5 mm

1SP SP003A - Anthracite color
1SP SP003B - White color
Wall-mounted infrared motion detector "CUBE" with "zero crossing"- IP 54

`ZERO CROSSING`

- Possibility of manual override to keep the lights on 5 hours disabling the action of the sensor.

- Power supply 230V a.c. ± 20% 50 Hz
- Relay output 5A
- Maximum lighting load:
  incandescent lamps 1.000W
  fluorescent lamps (uncompensated) 480W
  fluorescent lamps (compensated in parallel) 200W
  CFL / LED lamps (230V) 7W ÷ 23W max 8 lamps
- "ZERO CROSSING" on relay - Contact closure with zero load to increase the connectable load and relay endurance

- Protection degree IP 54
- Degree of pollution normal
- Detection angle 140° - Detection distance max 10 m
- Head swivelling angle 180° horizontal, 12° vertical
- Adjustment of deactivation delay 10" - 12'
- Lux adjustment from 5 to 300 LUX
- Sensitivity adjustment 40cm - 10m
- Insulation class ll
- CE marking reference standard LVD/EMC EN60669-2-1
- Dimensions (L x W x H) 50 x 64 x 102 mm

1SP SP005
Wall-mounted infrared motion detector with "zero crossing" - IP 55 white color

`ZERO CROSSING`

- Equipped with adapter for installation in corners.
- Possibility of limiting the detection range by obscuring the segments of the lens either horizontally or vertically.
- Possibility of manual override to keep the lights on 4 hours disabling the action of the sensor.

- Power supply 220÷240V c.a. 50Hz
- Maximum lighting load:
  incandescent lamps 2.000W
  fluorescent lamps (uncompensated) 480W
  fluorescent lamps (compensated in parallel) 220W
  CFL / LED lamps (230V) 7W ÷ 23W max 8 lamps
- "ZERO CROSSING" on relay - Contact closure with zero load to increase the connectable load and relay endurance
- Protection degree IP 55
- Degree of pollution normal

- Detection angle 240°
- Detection distance max 12 m
- Head swivelling angle 180° horizontal (limitable)
- Adjustment of deactivation delay 5" - 12'
- Lux adjustment from 5 to 1.000 LUX
- Sensitivity adjustment 3 - 12m
- Insulation class ll
- CE marking reference standard LVD/EMC EN60669-2-1
- Dimensions (L x W x H) 72 x 106 x 88 mm

1SP SP060B
Wall-mounted motion detector with courtesy LED light - IP54

`ZERO CROSSING`

- Equipped with adapter for ceiling installation

- Power supply 230V a.c. ± 10% 50 Hz
- Maximum lighting load:
  incandescent lamps 1.000W
  fluorescent lamps (uncompensated) 400W
  fluorescent lamps (compensated in parallel) 250W
  CFL / LED lamps (230V) 7W ÷ 23W max 5 lamps
- "ZERO CROSSING" on relay - Contact closure with zero load to increase the connectable load and relay endurance

- Protection degree IP54
- Detection angle 180°
- Detection distance 12 m
- Adjustment of deactivation delay from about 5" to 12'
- Lux adjustment from 20 to 300 LUX
- Insulation class ll
- Consumption in stand-by mode 0,5W
- Dimensions (L x W x H) 60 x 92 x 80 mm

1SP SP010
Wall-mounted infrared motion detector - IP 44 - white color

- Power supply 220÷240V c.a. 50Hz
- Maximum lighting load:
  incandescent lamps 1.000W
  fluorescent lamps (uncompensated) 400W
  fluorescent lamps (compensated in parallel) 220W
  CFL / LED lamps (230V) 7W ÷ 23W max 8 lamps
- "ZERO CROSSING" on relay - Contact closure with zero load to increase the connectable load and relay endurance
- Protection degree IP44

- Degree of pollution normal
- Detection angle 180°
- Detection distance max 12 m
- Head swivelling angle 70° horizontal - 35° vertical
- Adjustment of deactivation delay 5" - 12'
- Lux adjustment from 1 to 1.000 LUX
- Insulation class II
- CE marking reference standard LVD/EMC EN60669-2-1
- Dimensions (L x W x H) 65 x 88 x 95 mm

- **Head adjustable horizontally and vertically.**

1SP SP015
1SP SP015CL - **1 potential free changeover contact**
Ceiling mounted infrared presence detector with "zero crossing" – IP20

- Power supply 220÷240V c.a. 50Hz
- Maximum lighting load:
  incandescent lamps 2.000W
  fluorescent lamps (uncompensated) 480W
  fluorescent lamps (compensated in parallel) 250W
  CFL / LED lamps (230V) 7W ÷ 23W max 8 lamps
- "ZERO CROSSING" on relay - Contact closure with zero load to increase the connectable load and relay endurance

- Protection degree IP 20
- Degree of pollution normal
- Detection angle 360°
- Detection distance max 12 m
- Adjustment of deactivation delay 2' - 15'
- Lux adjustment from 5 to 1.000 LUX
- Insulation class II
- CE marking reference standard LVD/EMC EN60669-2-1
- Dimensions (DxW) Ø 130 x 70 mm

- **Possibility of manual override to keep the lights on 4 hours disabling the action of the sensor.**

1SP SP020
Recess mounted in ceiling infrared presence detector with "zero crossing" - IP 20

- Power supply 220÷240V c.a. 50Hz
- Diameter installation hole Ø 70mm
- Maximum lighting load:
  incandescent lamps 2.000W
  fluorescent lamps (uncompensated) 480W
  fluorescent lamps (compensated in parallel) 250W
  CFL / LED lamps (230V) 7W ÷ 23W max 8 lamps
- "ZERO CROSSING" on relay - Contact closure with zero load to increase the connectable load and relay endurance
- Protection degree IP 20

- Degree of pollution normal
- Detection angle 360°
- Detection distance max 14 m
- Adjustment of deactivation delay 10 settings
  5, 10, 20, 40, 80, 160 seconds / 5, 10, 20, 40 minutes
- Lux adjustment from 30 to 200 LUX
- Insulation class II
- CE marking reference standard LVD/EMC EN60669-2-1
- Dimensions (DxW) Ø 79,80 x 91 mm
- Height of lens 18mm

1MC D002
Dimmer for flush mounting Ø 60 mm round box

- Power supply 230V c.a. ± 10% 50 Hz
- Maximum lighting load:
  Incandescent lamps TE 400W
  Alogen lamps TE 400W
  LED TE 100W
  LED LE 25W
  Electromechanical trasformers L type LE 200W
- P (min-max) 0-200/0-200/0-100/0-25/0-200W

- Button mode: LE or TE
- Max cross-section of wires to terminals: 0,75... 6 mm²
- Protection degree IP 20
- Working temperature from -10°C to +35°C
- Storing temperature from -10°C to +60°C
- CE marking reference standard LVD/EMC DIRECTIVE BT; EMC: 2002/96/EC; 2002/95/EC, EN61000-3-2
- Dimensions (L x W x H) 58,7 x 45 x 25,3 mm

WI-FI TIME SWITCHES

WORKS WITH amazon alexa

works with the Google Assistant

		15	**72h**			
Wi-Fi	App	Programs for every function	Charge reserve	Maintenance of programs without connection	Wi-Fi LED and relay status	Control button Switch ON/OFF

1IO IOWF02
Wi-Fi time switch - 2 DIN

TIMER · RANDOM · COUNTDOWN · CYCLIC · MEMORY

1IO IAWF0102
Astronomical Wi-Fi time switch - 2 DIN

ASTRO · TIMER · MEMORY

- Power supply 230V c.a. 50 - 60Hz
- Contact output: 16 (2) A / 250V c.a.
- Max programs: 15 weekly programs for every function
- ON-OFF minimum connection time: 1 minute
- Visualisation: App
- Max cross-section of wires to terminals: 6 mmq
- Protection degree: IP20 - IP40 (on rear of switchboard)
- Type of output: terminals with captive screw
- Insulation class: II ☐
- ON / OFF relay signal: LED

- Charge reserve: min. 72 hours
- Time tolerance: ± 0,5 sec/day
- Operating temperature limits: 0°C +50°C
- Storing temperature: -10°C +65°C
- Type of installation: DIN rail / on rear of switchboard
- Housing: thermoplastic - grey RAL 7035
- Type of use: civil / tertiary / industrial
- Controls: ON/OFF/Reset button on front
- Clock setting accuracy: digital for hours/minutes
- Dimensions (L x W x H) 35 x 60 x 90 mm

1IO IO60WF
Wi-Fi time switch - 60x60 module

- Power supply 230V c.a. +-10% 50/60Hz
- Connection with FASTOM
- Max electric load 16A
- Programmable via App

- Max programs: 15 weekly programs for function
- Front button
- Relay status LED indicator on front
- Dimensions (L x W x H) 60 x 26 x 60 mm

1IO 0057WF - Wi-Fi time switch Italy plug
1IO 0057WFF - Wi-Fi time switch France plug
1IO 0057WFGB - Wi-Fi time switch UK plug

- Power supply 230V c.a. +-10% 50/60Hz
- Max electric load 16A (13A UK plug)
- Programmable via App
- Max programs: 15 weekly programs for type

- Front button
- Relay status LED indicator on front
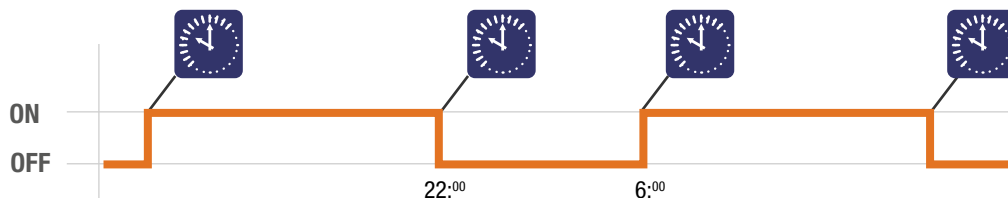- Dimensions (L x W x H) 56 x 40 x 111 mm

PROGRAMMING EXAMPLES:

WI-FI TIME SWITCH 2DIN

The combination of several programs allows you to meet even more complex needs such as turning ON/OFF multiple lights using group management.

The example shown was made using several ON/OFF timer programs to manage a store's interior sign and lights.

ON
OFF

22:00   6:00

DIGITAL TIME SWITCHES

1IO 3091 - Weekly-yearly - 1 channel
1IO 3291 - Weekly-yearly - 2 channels
Menu driven time switch - 2 DIN

1IO 5091S - Weekly-yearly - 1 channel
1IO 5291S - Weekly-yearly - 2 channels
Menu driven time switch with programming key - synchronizable with DCF and/or GPS time signal - 2 DIN

backlit display

- Power supply 230V c.a. ±10% 50 - 60Hz
- Contact output: limited current NO contact
  ZERO CROSSING 16 (10) A / 250V a.c.
- Max programs: 64 (matchable in blocks of days)
- ON-OFF minimum connection time: 1 second
- Visualisation: 1" 1/3 backlit LCD display
- Maximum lighting load: Incandescent LPs 3000W
  Fluorescent tube LPs, not compensated 1100W
  Parallely comp. fluorescent tube LPs 900W (tot
  capacity 125 µF)
  Compact, fluorescent LPs 7 W ÷ 23 W (max. 23 lamp.)
  LED 25 x 4 W / 12 x 8 W / 8 x 15 W
- Max cross-section of wires to terminals: 1 ... 6 mm^2
- Protection degree: IP20 - IP40 (on rear of switchboard)
- Type of output: terminals with captive screw
- Insulation class: II ▣

- ON / OFF relay signal: ON/OFF in LCD display
- Charge reserve: 6 years
- Type of reserve: LITHIUM battery
- Time tolerance: ± 0,5 sec/day
- Operating temperature limits: 0°C +50°C
- Storing temperature: -10°C +65°C
- Type of installation: DIN rail / on rear of switchboard
- Housing: thermoplastic - grey RAL 7035
- Type of use: civil / tertiary / industrial
- Controls: multifunction keys (menu programming)
  confirmation key
- Clock setting accuracy: digital for hours/minutes
- Daylight saving time change: automatic
- Programming: menu driven - programs protected in
  EEPROM
- Dimensions (L x W x H) 35 x 60 x 90 mm

ACCESSORIES

1PR EMD01 "EMD" programming key
External memory to upload / download programs

1IO SW001 Programming software for PC
It allows the programming on your computer. The created programs can be saved, sent via e-mail, printed or transferred to the time switch via the "EMD" programming key.

1PA RXDCF77 Time signal receiver from Frankfurt for synchronized time switches

- Power supply 230V a.c. 50/60Hz
- Wall-mounted or pole installation
- BUS output signal
- Protection degree IP 65
- Wiring with shielded cable diameter 7-11mm

- Anti-UV opaline housing
- Wiring with cables up to 2.5 mm^2
- Can be connected to max no. 10 time switches
- LED intervention signalling
- Dimensions (L x W x H) 72 x 37.5 x 147 mm

1PA RXGPS01 Satellite GPS time signal receiver for synchronized time switches

- Power supply 230V a.c. 50/60Hz
- Wall-mounted or pole installation
- BUS output signal
- Protection degree IP 65
- Wiring with shielded cable diameter 7-11mm

- Anti-UV opaline housig
- Wiring with cables up to 2.5 mm^2
- Can be connected to max no. 10 time switches
- LED intervention signalling
- Dimensions (L x W x H) 72 x 37.5 x 147 mm
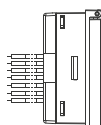
1IO 1080/M - Daily - 1 channel
1IO 1280/M - Daily - 2 channels
1IO 1081/M - Weekly - 1 channel
1IO 1281/M - Weekly - 2 channels
Digital time switch module with automatic daylight saving time change

DIGITAL TIME SWITCHES

1IO 7080 - Daily with automatic daylight saving time change - 1 channel
1IO 7081 - Weekly with automatic daylight saving time change - 1 channel
1IO 7281 - Weekly with automatic daylight saving time change - 2 channels
Digital time switch - 2 DIN
1 potential-free changeover contact

1IO 6080 - Daily without daylight automatic saving time change - 1 channel
1IO 6081 - Weekly without daylight automatic saving time change - 1 channel
Digital time switch - 2 DIN
1 potential-free changeover contact

backlit display

- Power supply 230V c.a. ±20% 50 - 60Hz
- Contact output: 16 (2) A / 250V a.c.
- Max programs: 58 (matchable in blocks of days)
- ON-OFF minimum connection time: 1 second
- Visualisation: 1" 1/3 backlit LCD display
- Maximum lighting load: Incandescent LPs 3500W
  Fluorescent tube LPs, not compensated 2300W
  Parallely comp. fluorescent tube LPs 700W (tot capacity 35 μF)
  Compact, fluorescent LPs 290W (7 x 15W)
  LED max n° 15 x 4 W / 10 x 8 W / 7 x 15 W
- Max cross-section of wires to terminals: 1 ... 6 mm²
- Protection degree: IP20 - IP40 (on rear of switchboard)
- Type of output: terminals with captive screw
- Insulation class: II ▢

- ON / OFF relay signal: ON/OFF in LCD display
- Charge reserve: 6 years
- Type of reserve: LITHIUM CR2032 rechargeable battery
- Time tolerance: ± 0,5 sec/day
- Operating temperature limits: 0°C +50°C
- Storing temperature: -10°C +65°C
- Type of installation: DIN rail / on rear of switchboard
- Housing: thermoplastic - grey RAL 7035
- Type of use: civil / tertiary / industrial
- Controls: multifunction keys (menu programming) confirmation key
- Clock setting accuracy: digital for hours/minutes
- Daylight saving time change: for 4 geographic areas
- Programming: for hours, minutes and seconds
- Dimensions (L x W x H) 35 x 60 x 90 mm

1IO 4091 - 1 channel
1IO 4291 - 2 channels
Astronomical twilight time switch - 2 DIN

- Power supply 230Vc.a.+/-10%, 50Hz
- Contact output: limited current NO contact
  ZERO CROSSING 16 (2) A / 250V a.c.
- Max programs: 45 ON-OFF
- ON-OFF minimum connection time: 1 minute
- Visualisation: 1" 1/3 backlit LCD display
- Maximum lighting load: Incandescent LPs 3000W
  Fluorescent tube LPs, not compensated 1100W
  Parallely comp. fluorescent tube LPs 900W (tot capacity 125 μF)
  Compact, fluorescent LPs 7 W ÷ 23 W (max. 23 lamp.)
  LED max n° 25 x 4 W / 12 x 8 W / 8 x 15 W
- Max cross-section of wires to terminals: 1 ... 6 mm²
- Protection degree: IP20 - IP40 (on rear of switchboard)
- Type of output: terminals with captive screw
- Insulation class: II ▢

backlit display

UNIQUE ON THE MARKET
Astro-Lux-Time in one product!

- ON / OFF relay signal: ON/OFF in LCD display
- Charge reserve: 6 years
- Type of reserve: CR2032 replaceable battery
- Time tolerance: ± 1 sec/day
- Operating temperature limits: -20°C +55°C
- Storing temperature: -30°C +60°C
- Type of installation: DIN rail / on rear of switchboard
- Housing: thermoplastic - grey RAL 7035
- Type of use: civil / tertiary / industrial
- Controls: manual function key ON/OFF
- Clock setting accuracy: digital for hours/minutes
- Daylight saving time change: euro / free / none
- Programming: for hours and minutes
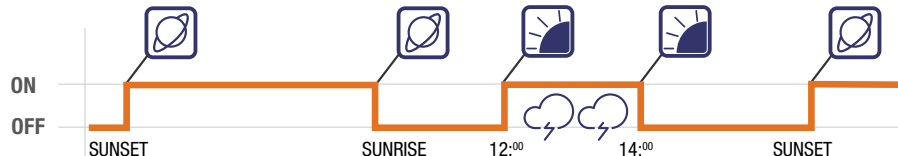- Dimensions (L x W x H) 35 x 60 x 90 mm

1 **SHOP SIGNBOARD - Operation with twilight / time / Astro logic**

ON	TWILIGHT
OFF	TIME h 22:00
ON	TIME h 6:00
OFF	ASTRONOMIC

2 **PUBLIC/SQUARE/PARKING LIGHTING - Operation with astronomical logic and daytime intervention in twilight mode in case of storm**

| ON | ASTRONOMIC |
| OFF | ASTRONOMIC |

ACCESSORIES

1PR EMD01 "EMD" programming key
External memory to upload / download programs

1PR 6092 Outdoor cadmium-free probe
The probe is not included in the packing. it must be purchased separately.

- Installation outdoors on wall and/or pole
- Connection with cables measuring between 0.75 and 2.5 mm²
- Cabling with 4-8 mm shielded cable
- UV-resistant opal housing
- Protection degree IP 65
- Dimensions of sensor (L x W x H) 28 x 48 x 56 mm

1IO 1070 - Daily
1IO 1071 - Weekly
Digital time switch with automatic standard time / daylight saving time change - 1 DIN

- Power supply 230V c.a. 50 - 60Hz
- Contact output: 16 (2) A / 250V a.c.
- Max programs: 96 (1IO 1070) - 672 (1IO 1071)
- ON-OFF minimum connection time: 15 minutes
- Visualisation: ¼" LCD display
- Maximum lighting load: 3500VA (each contact)
  Incandescent LPs 2300W
  Fluorescent tube LPs, not compensated 1000W
  Parallely comp. fluorescent tube LPs 290W (tot capacity 35 µF)
  Compact, fluorescent LPs 105W (7 x 15W)
  LED max n° 15 x 4 W / 10 x 8 W / 7 x 15 W
- Max cross-section of wires to terminals: 1 ... 2.5 mm²
- Protection degree: IP20 - IP40 (on rear of switchboard)
- Type of output: terminals with captive screw

- Insulation class: II ▢
- ON / OFF relay signal: ON/OFF in LCD display
- Charge reserve: 15 days
- Type of reserve: NiMH rechargeable battery
- Time tolerance: ± 0,5 sec/day
- Operating temperature limits: 0°C +50°C
- Storing temperature: -10°C +50°C
- Type of installation: DIN rail / on rear of switchboard
- Housing: thermoplastic - grey RAL 7035
- Type of use: civil / tertiary / industrial
- Controls: programming keys, ON/OFF key
- Clock setting accuracy: digital for hours/minutes
- Daylight saving time change: automatic
- Dimensions (L x W x H) 17.5 x 60 x 90 mm

1IO 0022/D15 - Daily
1IO 0024/D15 - Weekly
Digital time switch with tappets and display - 2 DIN

- Power supply 230V c.a. 50 - 60Hz
- Contact output: 16 (2) A / 250V a.c.
- Max programs: 96 (1IO 1070) - 672 (1IO 1071)
- ON-OFF minimum connection time: 15 minutes
- Visualisation: 1" LCD circular display
- Maximum lighting load: 3500VA (each contact)
  Incandescent LPs 2300W
  Fluorescent tube LPs, not compensated 1000W
  Parallely comp. fluorescent tube LPs 290W (tot capacity 35 µF)
  Compact, fluorescent LPs 105W (7 x 15W)
  LED max n° 15 x 4 W / 10 x 8 W / 7 x 15 W
- Max cross-section of wires to terminals: 2.5 mm²
- Protection degree: IP20 - IP30 (with terminal covers)
  IP40 (on rear of switchboard)
- Type of output: terminals with captive screw

- Insulation class: II ▢
- ON / OFF relay signal: ON/OFF in LCD display
- Charge reserve: 15 days
- Type of reserve: NiMH rechargeable battery
- Time tolerance: ± 1 sec/day
- Operating temperature limits: 0°C +55°C
- Storing temperature: -10°C +65°C
- Type of installation: DIN rail / wall-mounted / on rear of switchboard
- Housing: thermoplastic - grey RAL 7035
- Type of use: civil / tertiary / industrial
- Controls: programming keys, ON/OFF key
- Clock setting accuracy: digital for hours/minutes
- Daylight saving time change: automatic
- Dimensions (L x W x H) 35 x 60 x 128 mm

Note: Art. 0022/D15 - 0024/D15 can be installed in rear of switchboard with accessory 1PA KTMP/2 (option)

1IO 0012D15 - Daily - 72x72
1IO 0016D15 - Weekly - 72x72
1IO 0012D15/M230 - Daily - 60x60 Module
1IO 0016D15/M230 - Weekly - 60x60 Module
Digital time switch with tappets and display

- Power supply 230V c.a. 50 - 60Hz
- Contact output: 16 (2) A / 250V a.c.
- Max programs: 96 (daily) - 672 (weekly)
- ON-OFF minimum connection time: 15 minutes
- Visualisation: LCD circular display
- Maximum lighting load: 3500VA (each contact)
  Incandescent LPs 2300W
  Fluorescent tube LPs, not compensated 1000W
  Parallely comp. fluorescent tube LPs 290W (tot capacity 35 µF)
  Compact, fluorescent LPs 105W (7 x 15W)
  LED max n° 15 x 4 W / 10 x 8 W / 7 x 15 W
- Max cross-section of wires to terminals: 2.5 mm²
- Protection degree: IP40 (wall-mounted, on rear of switchboard)
- Type of output: terminals with captive screw

- Insulation class: II ▢
- ON / OFF relay signal: ON/OFF in LCD display
- Charge reserve: 15 days
- Type of reserve: NiMH rechargeable battery
- Time tolerance: ± 1 sec/day
- Operating temperature limits: 0°C +50°C
- Storing temperature: -10°C +50°C
- Type of installation: wall-mounted / on rear of switchboard / recess mounting
- Housing: thermoplastic - grey RAL 7035
- Type of use: civil / tertiary / industrial
- Controls: programming keys, ON/OFF key, reset key
- Clock setting accuracy: digital for hours/minutes
- Dimensions (L x W x H) 72 x 67.5 x 101 mm (72x72)
  60 x 26 x 60 mm (60x60)

Note: Art. 0012D15 - 0016D15 can be installed on rear of switchboard with accessory 1PA SG001 (option)

1IO 0017 - Daily - Without charge reserve
1IO 0018 - Daily - With charge reserve
1IO 0020 - Weekly - With charge reserve
Time switch with tappets - 72x72

1IO 0017M - Daily - Without charge reserve
1IO 0018M - Daily - With charge reserve
1IO 0020M - Weekly - With charge reserve
Time switch with tappets - 60x60 Module

- Power supply 230V c.a. 50 - 60Hz
- Contact output: 16 (2) A / 250V a.c.
- Max programs: 96 (daily) - 84 (weekly)
- ON-OFF minimum connection time: 15 minutes (daily)
  120 minutes (weekly)
- Visualisation:mechanical tappets ring
- Max commutable power resistive load 3500 W
  inductive load (cosϕ>= 0.6) 500 VA
- Max cross-section of wires to terminals: 1.5 ... 4 mm²
- Protection degree: IP30
- Type of output: terminals with captive screw
- Insulation class: II ☐
- Charge reserve: 72 hours

- Type of reserve: NiMH rechargeable battery
- Time tolerance: ± 1 sec/day
- Operating temperature limits: -10°C +50°C
- Storing temperature: -10°C +50°C
- Type of installation: DIN rail / wall-mounted / on rear of switchboard
- Housing: thermoplastic - grey RAL 7035
- Type of use: civil / tertiary / industrial
- Controls: mechanical tappets, ON / Timer /OFF selector
- Clock indication: only for daily models
- Dimensions (L x W x H) 72 x 48 x 101 mm (72x72)
  60 x 26 x 60 mm (60x60)

Note: Art. 0017 - 0018 - 0020 can be installed on rear of switchboard with accessory 1PA SM72 (option)

1IO 0170 - Daily without charge reserve - 1 DIN
1IO 0171 - Daily with charge reserve - 1 DIN
1IO 0021 - Daily without charge reserve - 2 DIN
1IO 0022 - Daily with charge reserve - 2 DIN
1IO 0024 - Weekly with charge reserve - 2 DIN
Time switch with tappets

- Power supply 230V c.a. 50 - 60Hz
- Contact output: 16 (4) A / 250V a.c.
- Max programs: 48 - 96 (0170 / 0171)
- ON-OFF minimum connection time: 30 minutes (daily)
  15 minutes (0170 / 0171) - 3.5 hours (weekly)
- Visualisation:mechanical tappets ring
- Max commutable power resistive load 3500 W
  inductive load (cosϕ>= 0.6) 1000 VA
- Max cross-section of wires to terminals: 4 mm²
- Protection degree: IP20 - IP30 (with terminal covers)
  IP40 (on rear of switchboard)
- Type of output: terminals with captive screw
- Insulation class: II ☐
- Charge reserve: max 150 hours - 100 hours (0171)
- Type of reserve: NiMH rechargeable battery

- Time tolerance: ± 1 sec/day
- Operating temperature limits: -10°C +50°C
- Storing temperature: -10°C +50°C
- Type of installation: DIN rail / wall-mounted / on rear of switchboard
- Housing: thermoplastic - grey RAL 7035
- Type of use: civil / tertiary / industrial
- Controls: mechanical tappets
  timer / ON selector (0170/0171)
  ON / Timer /OFF selector
- Clock setting accuracy: mechanical with reference index
- Programming: mechanical key ring (blocks 15' / 120')
- Dimensions (L x W x H) 17.5 x 60 x 128 mm 1 DIN
  35 x 60 x 90 mm 2 DIN

1IO 0031 - Daily without charge reserve - 2 DIN
1IO 0032 - Daily with charge reserve - 2 DIN
1IO 0034 - Weekly with charge reserve - 2 DIN
Time switch with tappets with ON/OFF min. 15 minutes

- Power supply 230V c.a. 50 - 60Hz
- Contact output: 16 (4) A / 250V a.c.
- Max programs: 96
- ON-OFF minimum connection time: 15 minutes (daily)
  105 minutes (weekly)
- Visualisation:mechanical tappets ring
- Max commutable power resistive load 3500 W
  inductive load (cosϕ>= 0.6) 1000 VA
- Max cross-section of wires to terminals: 2.5 mm²
- Protection degree: IP20, IP40 (on rear of switchboard)
- Type of output: terminals with captive screw
- Insulation class: II ☐
- Charge reserve: max 150 hours
- Type of reserve: NiMH rechargeable battery

- Time tolerance: ± 1 sec/day
- Operating temperature limits: -10°C +50°C
- Storing temperature: -10°C +50°C
- Type of installation: DIN rail / wall-mounted / on rear of switchboard
- Housing: thermoplastic - grey RAL 7035
- Type of use: civil / tertiary / industrial
- Controls: mechanical tappets
  ON / Timer /OFF selector
- Clock setting accuracy: mechanical with reference index
- Programming: mechanical key ring (blocks 15')
- Dimensions (L x W x H) 35 x 60 x 90 mm

PLUG / SOCKET TIME SWITCHES - ACCESSORIES STAIRCASE TIMERS

1IO 0055 - Daily - Shuko Germany
1IO 0056 - Weekly - Shuko Germany
1IO 0053 - Daily - plug Italy
1IO 0054 - Weekly - plug Italy
Plug time switch 16 A

- Power supply 230V a.c. 50/60Hz
- Contacts 16 A
- Maximum commutable power 3500 VA
- Minimum intervention interval 15 min
- ON / TIMER control

1PA SG001 Plastic profile for installing 72x72 time switches on rear of switchboard

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1PA KTMP2 Kit for installation of 2 DIN modules on rear of switchboard
Kit including: 2 hooks + finishing front for installing 2 DIN modules on the rear of the switchboard

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1PA KTMP4 Kit for installation of 4 DIN modules on rear of switchboard
Kit including: 2 hooks + finishing front for installing 4 DIN modules on the rear of the switchboard

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1IT 1051
Staircase timer, wall-mounted
Electronic timer switch, can perfectly replace the three-wire electromechanical models made in Germany, Spain, etc

- Power supply 230V a.c. +-10% 50/60Hz
- 1 polarized NO contact output: 16(3) A / 250 V a.c.
- Maximum lighting load: incandescent LPs 2300W
  Fluorescent LPs 290W
  Electronic fluorescent LPs 105W (7 x 15W)
- Adjustable timing from 30 sec at 7 min +/-10%
- Restorable
- Max 30 external START and push buttons (also luminous)
- Fixed light switch
- Wall or panel mounting
- 3-wire connection - cables up to 2.5 mm²
- Dimensions (L x W x H) 88 x 55 x 110 mm

1IT 1062
Staircase timer 1 DIN

- Power supply 230V a.c. +/- 10%, 50 Hz
- Type of output relay with NO single-pole polarized contact ZERO CROSSING 16A / 250V a.c.
- Maximum lighting load: Incandescent LPs 3600W
  Fluorescent tube LPs, not compensated 1000W
  Parallely comp. fluorescent tube LPs 1000W (tot capacity 140 µF)
- Time adjustment: from 30 seconds to 20 minutes
- Ability to activate stair cleaning function
- Maximum wire section at terminals: 1 mm² ÷ 6 mm²
- Protection degree: IP 20
- Operating temperature limits of module: -10 °C ÷ +55 °C
- Storage temperature limits: -20 °C ÷ +65 °C
- Type of installation: DIN rail
- Maximum current consumption of illuminated pushbuttons 150mA with overload protection
- CE reference standards: LVD/EMC EN60669-2-3 EN60669-2-1
- Dimensions (L x W x H): 17,5 x 60 x 90 mm

1IT 1067
Multifunction staircase timer 1 DIN

- Power supply 230V a.c. +/- 10%, 50 Hz
- Type of output relay with NO single-pole polarized contact ZERO CROSSING 16A / 250V a.c.
- Maximum lighting load: Incandescent LPs 3600W
  Fluorescent tube LPs, not compensated 1000W
  Parallely comp. fluorescent tube LPs 1000W (tot capacity 140 µF)
- Time adjustment: from 30 seconds to 20 minutes
- Switch off warning in the TW and TWI operation modes
- Ability to activate stair cleaning function in the T and TW operation modes
- Maximum wire section at terminals: 1 mm² ÷ 6 mm²
- Protection degree: IP 20
- Operating temperature limits of module: -10 °C ÷ +55 °C
- Storage temperature limits: -20 °C ÷ +65 °C
- Type of installation: DIN rail
- Maximum current consumption of illuminated pushbuttons 150mA with overload protection
- CE reference standards: LVD/EMC EN60669-2-3 EN60669-2-1
- Dimensions (L x W x H): 17,5 x 60 x 90 mm

1IC 7242
Photocell lighting control switch for wall-mounting and/or pole installation

- Power supply 230V a.c. 50 / 60Hz
- Outdoor installation
- Output 1 polarized NO contact: 16 (2) A / 250Va.c.
- Connection with cables up to 2.5 mm^2
- Wiring with shielded cable diameter 4-9 mm

- Intervention threshold adjustment trimmer, 2 - 200 Lux
- Threshold signalling LED
- Anti-UV opaline housing
- Protection degree IP 54
- Dimensions (Ø L x W x H) Ø 82 x 97 x 101 mm

1IC 7243
Photocell lighting control switch with replaceable control module for wall-mounting and/or pole installation
Product being particularly suitable to facilitate system maintenance personnel: the control part that can be removed from the base of the contacts allows a quick intervention in the product without disconnecting the load

- Power supply 230V a.c. 50/60Hz
- Outdoor installation
- Output 1 polarized NO contact: 16 (2) A / 250Va.c.
- Connection with cables up to 2.5 mm^2
- Wiring with shielded cable diameter 7-11 mm
- Pre-calibrated at the factory at 10 Lux ± 20%

- Intervention threshold adjustment trimmer, 2 - 200 Lux
- Threshold signalling LED
- Anti-UV opaline housing
- Protection degree IP 65
- Dimensions (L x W x H) 72 x 37.5 x 147 mm

1PR 7243M Spare module for photocell lighting control switch item 7243

- Power supply 230V a.c. 50/60Hz
- Outdoor installation
- Output 1 polarized NO contact: 16 (2) A / 250Va.c.
- Pre-calibrated at the factory at 10 Lux ± 20%

- Intervention threshold adjustment trimmer, 2 - 200 Lux
- Threshold signalling LED Anti-UV opaline housing
- Dimensions (L x W x H) 72 x 37.5 x 80 mm

1IC 7245
Photocell lighting control switch model "FEBO" for wall-mounting and/or pole installation
The factory 10 LUX calibration prevents difficult interventions by the installer

- Power supply 230V a.c. 50 / 60Hz
- Outdoor installation
- Output 1 polarized NO contact: 16 (2) A/250Va.c.
- Connection with cables up to 2.5 mm^2
- Wiring with shielded cable diameter 7-11 mm
- Pre-calibrated at the factory at 10 Lux ± 20%

- Intervention threshold adjustment trimmer, 2 - 200 Lux
- Threshold signalling LED
- Anti-UV opaline housing
- Protection degree IP 65
- Dimensions (L x W x H) 55 x 45 x 106 mm

1IC 7051
Photocell lighting control switch with adjustment 2-10.000Lux, 2 DIN
It allows progressively lighting street tunnels

- Power supply 230V a.c. 50 / 60Hz DIN assembly plus outdoor probe
- Output 1 changeover contact, potential-free: 16 (2) A / 250V a.c.
- Connection with cables up to 2.5 mm^2
- Adjustment range 2-100 / 2-1000 / 2-10.000 Lux (3 scales)
- Activation delay 8 sec ± 10%
- Deactivation delay 38 sec ± 10%

- Threshold calibration signalling LED
- Operation signalling LED Intervention threshold adjustment trimmer
- Dimensions DIN (L x W x H) 35 x 60 x 90 mm

EXTERNAL PROBE
- Anti-UV opaline housing
- Protection degree IP 65
- Dimensions of the probe (L x W x H) 28 x 48 x 56 mm

1IC 7052
Photocell lighting control switch with adjustment 2-200 Lux, 2 DIN
Provided with hysteresis and activation / deactivation delays to prevent false switching

- Power supply 230V a.c. 50 / 60Hz DIN assembly plus outdoor probe
- Output 1 changeover contact, potential-free: 16 (2) A / 250V a.c.
- Connection with cables up to 2.5 mm^2
- Adjustment range 2-200 Lux adjustable
- Activation delay 8 sec ± 10%
- Deactivation delay 38 sec ± 10%
- Threshold calibration signalling LED

- Operation signalling LED Intervention threshold adjustment trimmer
- Dimensions DIN (L x W x H) 35 x 60 x 90 mm

EXTERNAL PROBE
- Anti-UV opaline housing
- Protection degree IP 65
- Dimensions of the probe (L x W x H) 28 x 48 x 56 mm

1IC 7053N
Photocell lighting control switch with adjustment 0÷1.000 lux - 1 DIN
High performance with minimum dimensions for controlling inductive loads like fluorescent lamps or LEDs

- Power supply: 230V a.c. +/- 10%, 50 Hz
- Type of output: relay with NO potential free contacts (Cadmium free) 16A / 250V a.c. with zero crossing
- Maximum wire section at terminals: 1 mm² ÷ 6 mm²
- Threshold intervention (lux) adjustment: 0÷1.000 Lux
- Double adjustment scale
- Selector for operating mode selection:
  - always ON
  - always OFF
  - Threshold adjustment: 0÷100 Lux
  - Threshold adjustment: 0÷1.000 Lux
- Trimmer for setting threshold adjustment

- Delay in switching on / off to avoid false switching:
  ON delay: 15 seconds
  OFF delay: 30 seconds
- LED operating status
- Cadmium free relay
- Dimensions module (L x W x H): 17,5 x 60 x 90 mm

EXTERNAL PROBE
- Probe with Cadmium free precision photodiode sensor anti-UV opaline housing
- Protection degree IP 65
- Dimensions probe (L x W x H): 28 x 48 x 56 mm

ACCESSORIES

1PR EMD01 "EMD" programming key
External memory to upload / download programs

1PR 6092 Outdoor spare cadmium free probe for DIN photocell lighting control switch 1IC 7053N, 1IC 7052 (production XX/19)

- Outdoor wall-mount and / or pole installation
- Connection with cables from 0.75 mm² to 2.5 mm²
- Wiring with shielded cable diameter 4-8 mm
- Anti-UV opaline housing
- Protection degree IP 65
- Dimensions (L x W x H) 28 x 48 x 56 mm

1PR 6093 Outdoor spare cadmium free probe for DIN photocell lighting control switch 1IC 7051 (production XX/19)

- Outdoor wall-mount and / or pole installation
- Connection with cables from 0.75 mm² to 2.5 mm²
- Wiring with shielded cable diameter 4-8 mm
- Anti-UV opaline housing
- Protection degree IP 65
- Dimensions (L x W x H) 28 x 48 x 56 mm

1GA 47917MET/P - Natural gas CH4
1GA 47917GPL/P - LPG
"ZEFIRO" series wall-mounted and / or Semi-recessed detector with BUS output

- Power supply 230V a.c. 50-60Hz
- 1 potential-free changeover contact output:
  8 (2) A / 250Va.c.
- Microprocessor with fume selection program to prevent false alarms
- Microprocessor with timer to signal product service every 5 years
- Remote sensor recognition (BUS system)
- Digital BUS output for signaller control (max 15)
- Interconnection length max 800m (2 x 1.5 mm^2)
- Alarm memory
- ON / TEST selector
- Self-diagnosis test
- Signalling buzzer 85dB at 1m
- ON indicator LED
- Fault indicator LED
- Gas concentration LED on 3 signalling levels
- Intervention level: 5.000 ppm 10% LIE (CH4)
  1.860 ppm 10% LIE (LPG)
- Wall-mounted IP 42
- Dimensions (L x W x H) 120 x 40 x 82 mm
- Semi-recessed installation with accessory IP 40
- Dimensions (L x W x H) 120 x 27.5 x 82 mm

1GA 48917MET/P - Natural gas CH4
1GA 48917GPL/P - LPG
"ZEFIRO" series wall-mounted and / or Semi-recessed signaller with BUS input series

- Power supply 230V a.c. 50-60Hz
- Microprocessor with fume selection program to prevent false alarms
- Microprocessor with timer to signal product service every 5 years
- Digital BUS input
- Alarm memory
- ON / TEST selector
- Self-diagnosis test
- Signalling buzzer 85dB at 1m
- ON indicator LED
- Fault indicator LED
- Gas concentration LED on 3 signalling levels
- Intervention level: 5.000 ppm 10% LIE (CH4)
  1.860 ppm 10% LIE (LPG)
- Wall-mounted IP 42
- Dimensions (L x W x H) 120 x 40 x 82 mm
- Semi-recessed installation with accessory IP 40
- Dimensions (L x W x H) 120 x 27.5 x 82 mm

1GA 50917MET/P - Natural gas CH4
1GA 50917GPL/P - LPG
"ZEFIRO" series wall-mounted and / or Semi-recessed detector with BUS output

- Power supply 230V a.c. 50-60Hz
- 1 potential-free changeover contact output:
  8 (2) A / 250Va.c.
- Signalling buzzer 85dB at 1m
- ON indicator LED
- Fault indicator LED
- Gas presence indicator LED
- Intervention level: 5.000 ppm 10% LIE (CH4)
  1.860 ppm 10% LIE (LPG)
- Wall-mounted IP 42
- Dimensions (L x W x H) 120 x 40 x 82 mm
- Semi-recessed installation with accessory IP 40
- Dimensions (L x W x H) 120 x 27.5 x 82 mm

1GA 51917MET/P - Natural gas CH4
1GA 51917GPL/P - LPG
"ZEFIRO" series wall-mounted and / or Semi-recessed natural gas (CH4) signaller

- Power supply 230V a.c. 50-60Hz
- Signalling buzzer 85dB at 1m
- ON indicator LED
- Fault indicator LED
- Gas presence indicator LED
- Signalling level: 5.000 ppm 10% LIE
  1.860 ppm 10% LIE (LPG)
- Wall-mounted IP 42
- Dimensions (L x W x H) 120 x 40 x 82 mm
- Semi-recessed installation with accessory IP 40
- Dimensions (L x W x H) 120 x 27.5 x 82 mm

1PA BSGA01 Base for "ZEFIRO" series semi-recessed installation
Base for semi-recessed installation in boxes: round and/or rectangular

1GA 50916/CHCO
Wall-mounted carbon monoxide (CO) and natural gas (CH4) detector
The detector can detect two gases: natural gas (CH4) and carbon monoxide (CO)
Intervention sensitivity:
- natural gas at 10% of the lower explosion limit
- carbon monoxide, when the maximum allowed 300ppm CO concentration is exceeded, or rather in case low but damaging concentrations 30ppm for 2 hours persist for long periods in the premises.

- Power supply 230V a.c. 50-60Hz
- 2 potential-free changeover contacts output: 5 (2)A / 250Va.c.
- Natural gas catalytic sensor
- Natural gas intervention level 5000 ppm 10% LIE
- Semi-conductor sensor for CO
- CO intervention level 30 / 300 (30ppm after 2 hours – 300ppm immediately)

- Signalling buzzer 85dB at 1m
- ON indicator LED
- Fault indicator LED
- Gas presence indicator LED (2 different)
- Protection degree IP 42
- Dimensions (L x W x H) 115 x 50 x 150 mm

1GA 50916/CO
Wall-mounted carbon monoxide (CO) detector
Intervention sensitivity to carbon monoxide, when the maximum allowed 300ppm CO concentration is exceeded, or rather in case low but damaging concentrations 30ppm for 2 hours persist for long periods in the premises.

- Power supply 230V a.c. 50-60Hz
- 1 potential-free changeover contact output: 5 (2) A / 250Va.c.
- Semi-conductor sensor for CO
- CO intervention level 30 / 300 (30ppm after 2 hours – 300ppm immediately)

- Signalling buzzer 85dB at 1m
- ON indicator LED
- Fault indicator LED
- Gas presence indicator LED
- Protection degree IP 42
- Dimensions (L x W x H) 115 x 50 x 150 mm

KITS

1GA 50917MET/1.2
Wall-mounted natural gas detector kit with 1/2" NO solenoid valve
Kit including:
no. 1 1GA 50917MET/P   with no. 1 1EV EV020

1GA 50917GPL/1.2
Wall-mounted LPG gas detector kit with 1/2" NO solenoid valve
Kit including
no. 1 1GA 50917GPL/P   with no. 1 1EV EV020

1GA 50917MET/3.4
Wall-mounted natural gas detector kit with 3/4" NO solenoid valve
Kit including
no. 1 1GA 50917MET/P with no. 1 1EV EV021

1GA 50917GPL/3.4
Wall-mounted LPG gas detector kit with 3/4" NO solenoid valve
Kit including
no. 1 1GA 50917GPL/P   with no. 1 1EV EV021

1GA 100M - 1 zone
1GA 300M - 3 zones
Control unit for wall or panel installation
Microprocessor control units to create a complete supervision and control system, with high flexibility. Equipped with a series of micro switches through which it is possible: to eliminate the probe when not installed or faulty, detect which type of gas (Toxic or Explosive), choose the functioning of the relay (pulses or continuous), choose the insertion or deactivation of Positive Safety

- Power supply 230V a.c. 50Hz Battery-operated secondary power supply 12V d.c. ±10%
- Pre-alarm output relay in exchange
- Output relay ON / OFF
- 1st alarm set for all the probes at 8% of the L.E.L. (120ppm)
- 2nd alarm set for all the probes at 13% of the L.E.L. (200ppm)
- General alarm set at 20% of the L.E.L. (300ppm)
- 1 connectable probe of type: catalytic,

electrochemical, semiconductor
- Analogic input signal 4mA ÷ 20Ma
- Accuracy 1% FS
- Working temperature -10 ° C - + 60 ° C
- Max probe distance 100m
- TEST command
- Protection degree IP 44
- Variable color display according to work status (1GA300M)
- Dimensions (L x W x H) 144 x 108 x 114 mm

1GA 2001
1-zone control unit for toxic and explosive gases - 6 DIN
Microprocessor control unit manufactured to remotely control the presence of explosive or toxic gases by means of a probe. Precise self-diagnosis systems perform a continuous control of probe conditions and connection.

- Power supply 230V a.c. 50Hz ±10% Battery-operated secondary power supply 12V d.c. ±10%
- 3 potential-free contact outputs: 10A 250 V a.c. resistive - 5A 30V d.c. resistive
- Pre-alarm 13% of LIE explosive gases and 200ppm for CO
- Alarm 20% of LIE explosive gases and 300ppm for CO
- 1 connectable probe, type: catalytic, electrochemical cell, pellistor, semiconductor

- Analogue input signal 4 mA ÷ 20 mA
- Max probe distance 100m
- RESET and TEST controls
- Signalling buzzer
- Operation status indicator LED
- Gas type indicator LED
- Main alarm and pre-alarm indicator LED
- Gas concentration indicator LED with thresholds
- Dimensions (L x W x H) 105 x 58 x 90 mm

1GA 2002
2-zones control unit for toxic and explosive gases - 6 DIN
Microprocessor control unit manufactured to remotely control the presence of explosive and/or toxic gases by means of probes. Precise self-diagnosis systems perform a continuous control of probe conditions and connection.

- Power supply 230V a.c. 50Hz ±10% Battery-operated secondary power supply 12V d.c. ±10%
- 3 potential-free contact outputs: 10A 250 V a.c. resistive - 5A 30V d.c. resistive
- Pre-alarm 13% of LIE explosive gases and 200ppm for CO
- Alarm 20% of LIE explosive gases and 300ppm for CO
- 2 connectable probes, type: catalytic, electrochemical cell, pellistor, semiconductor
- Analogue input signal 4 mA ÷ 20 mA

- Max probe distance 100m
- RESET and TEST controls
- Signalling buzzer
- Operation status indicator LED
- Gas type indicator LED
- Main alarm and pre-alarm indicator LED
- Gas concentration indicator LED with thresholds in each zone
- Dimensions (L x W x H) 105 x 58 x 90 mm

1GA 2004
4-zones control unit for toxic and explosive gases - 9 DIN
Microprocessor control unit manufactured to remotely control the presence of explosive and/or toxic gases by means of probes. Precise self-diagnosis systems perform a continuous control of probe conditions and connection.

- Power supply 230V a.c. 50Hz ±10% Battery-operated secondary power supply 12V d.c. ±10%
- 3 potential-free contact outputs: 10A 250 V a.c. resistive - 5A 30V d.c. resistive
- Pre-alarm 13% of LIE explosive gases and 200ppm for CO
- Alarm 20% of LIE explosive gases and 300ppm for CO
- 4 connectable probes, type: catalytic, electrochemical cell, pellistor, semiconductor
- Analogue input signal 4 mA ÷ 20 mA

- Max probe distance 100m
- RESET and TEST controls
- Signalling buzzer
- Operation status indicator LED
- Gas type indicator LED
- Main alarm and pre-alarm indicator LED
- Display that shows the gas concentration in sequence for each zone
- Continuous 2" scanning in each probe
- Dimensions (L x W x H) 158 x 58 x 90 mm

1GA 4200MET - Natural gas CH4
1GA 4200GPL - LPG
Catalytic sensor - IP55
Microprocessor probe with AUTOMATIC calibration and self-diagnosis to adapt to harsh environments and variable temperatures to prevent false alarms due to irregular events.

- Power supply 12-24V d.c. +/- 10%
- Catalytic sensor for NATURAL gas (4200MET) or LPG (4200GPL) having a duration of 5 years
- Detector measurement field 0÷20% LIE
- Analogue output signal 4 mA ÷ 20 mA
- Replaceable sensor

- Protection degree IP 55
- Max control unit distance 100m
- Probe body material: self-extinguishing ABS
- Working temperature limit -10°C +40°C
- LED indicator: gree regular, yellow warning, red alarm
- Dimensions (L x W x H) 75 x 58 x 114 mm

1GA 4200MET/A - Natural gas CH4
1GA 4200GPL/A - LPG
Catalytic sensor housing made in die-cast aluminium - IP66
Microprocessor probe with AUTOMATIC calibration and self-diagnosis to adapt to harsh environments and variable temperatures to prevent false alarms due to irregular events.

- Power supply 12-24V d.c. +/- 10%
- Catalytic sensor for NATURAL gas (4200MET/A) or LPG (4200GPL/A) having a duration of 5 years
- Detector measurement field 0÷20% LIE
- Analogue output signal 4 mA ÷ 20 mA
- Replaceable sensor

- Protection degree IP 66
- Max control unit distance 100m
- Probe body material: aluminium
- Working temperature limit -10°C +40°C
- Dimensions (L x W x H) 100 x 60 x 100 mm

1GA 4400CO
CO Sensor - IP 55

Microprocessor probe to detect TOXIC GASES, such as carbon monoxide, with self-diagnosis. It is used when the maximum allowed 300ppm CO concentration is exceeded, or rather in case low but damaging concentrations 30ppm for 2 hours persist for long periods in the premises.

- Power supply 12-24V d.c. +/- 10%
- Electrochemical cell
- Catalytic sensor for LPG gas having a duration of 5 years
- Detector measurement field 0÷20% LIE
- Analogue output signal 4 mA ÷ 20 mA
- Replaceable sensor
- Alarm 300 ppm

- Protection degree IP 55
- Max control unit distance 100m
- Probe body material: aluminium
- Working temperature limit -20°C +50°C
- Power supply indicator LED
- Dimensions (L x W x H) 78 x 58 x 114 mm

1GA 4400CO/A
CO Sensor housing made in die-cast aluminium - IP 66

Microprocessor probe to detect TOXIC GASES, such as carbon monoxide, with self-diagnosis. It is used when the maximum allowed 300ppm CO concentration is exceeded, or rather in case low but damaging concentrations 30ppm for 2 hours persist for long periods in the premises.

- Power supply 12-24V d.c. +/- 10%
- Electrochemical cell
- Catalytic sensor for LPG gas having a duration of 5 years
- Detector measurement field 0÷20% LIE
- Analogue output signal 4 mA ÷ 20 mA
- Replaceable sensor

- Alarm 300 ppm
- Protection degree IP 66
- Max control unit distance 100m
- Probe body material: aluminium
- Working temperature limit -20°C +50°C
- Dimensions (L x W x H) 100 x 60 x 100 mm

1GA 895MET - Natural gas CH4
1GA 895GPL - LPG
ATEX explosion-proof probe

ATEX certified gas detection probe with control prerogative with catalytic technology sensors for explosive and toxic gas. Probe managed by a microprocessor that provides an alarm signal to the control panel to which it is connected and allows self-diagnosis and automatic calibration, to maintain maximum detection accuracy over time. The self-calibration allows the probe to adapt in harsh environments and at variable temperatures, avoiding false alarms due to abnormal events.

- Power supply 12-24V d.c. +/- 10%
- Catalytic sensor
- Replaceable sensor
- Detector measurement field 0÷20%
- Analogue output signal 4 mA ÷ 20 mA

- Protection degree IP 66
- Max control unit distance 100m
- Probe body material: aluminium
- Working temperature limit -10°C +60°C
- Dimensions (L x W x H) 100 mm

**II 2 GD Ex d tD IIC
T6 X -10 < T amb
<+60°C**

ACCESSORIES

1GA HE55ES Replacement sensor IP 55 for 1GA 4200MET, 1GA 4200GPL, 1GA 4400CO

1GA HE66ES Replacement sensor IP 66 for 1GA 4200MET/A, 1GA 4200GPL/A, 1GA 4400CO/A

1GA HEATES Replacement sensor for 1GA 895MET e 1GA 895GPL

GAS SOLENOID VALVES, with manual reset NORMALLY CLOSED N.C.

This solenoid valve is made in such a way as to ensure the gas shut-off for both danger signals sent by gas detectors (methane, LPG, carbon monoxide, and others) or safety thermostats, or for power failure in the network (black out). For added security this solenoid valve can be reset only in the presence of mains voltage and only when the gas detector is not detecting any danger.
Simply powering the coil the valve does not open. You need to act manually on the reset mechanism.

CE APPROVAL IN ACCORDANCE WITH
EN 16 1

COMPLIANCE DIRECTIVE
2009 / 142 / EC (GAS DIRECTIVE)

6 BAR VERSION COMPLIANT WITH
DIRECTIVE 97 / 23 / EC
(PED DIRECTIVE)

COMPLIANCE WITH DIRECTIVE
94 / 9 / EC (ATEX DIRECTIVE)

COMPLIANCE WITH DIRECTIVE
2004 / 108 / EC
(ELECTROMAGNETIC COMPATIBILITY)

COMPLIANCE WITH DIRECTIVE
2006 / 95 / EC (LOW VOLTAGE)

1EV EV040	N.C. ½" Solenoid valve DN15 threaded 230V 50-60 Hz brass body int. 66
1EV EV041	N.C. ¾" Solenoid valve N.C. DN20 threaded 230V 50-60 Hz brass body int. 66
1EV EV042	N.C. 1"Solenoid valve DN25 threaded 230V 50-60 Hz brass body int. 82
1EV EV045	N.C. 1"¼ Solenoid valve DN32 threaded 230V 50-60 Hz aluminium body int. 160
1EV EV043	N.C. 1"½ Solenoid valve DN40 threaded 230V 50-60 Hz aluminium body int. 160
1EV EV044	N.C. 2" Solenoid valve DN50 threaded 230V 50-60 Hz aluminium body int. 160
1EV EV060	N.C. Solenoid valve DN65 flanged 230V 50-60 Hz aluminium body int. 290
1EV EV061	N.C. Solenoid valve DN80 flanged 230V 50-60 Hz aluminium body int. 310
1EV EV062	N.C. Solenoid valve DN100 flanged 230V 50-60 Hz aluminium body int. 350
1EV EV063	N.C. Solenoid valve DN125 flanged 230V 50-60 Hz aluminium body int. 480
1EV EV064	N.C. Solenoid valve DN150 flanged 230V 50-60 Hz aluminium body int. 480
1EV EV065	N.C. Solenoid valve DN200 flanged 230V 50-60 Hz aluminium body int. 600
1EV EV066	N.C. Solenoid valve DN300 flanged 230V 50-60 Hz aluminium body int. 737

GAS SOLENOID VALVES, with automatic reset NORMALLY CLOSED N.C. in Class "A"

Solenoid valves for gas, normally closed which open when the coil is powered and close when there is no power. These solenoid valves may be controlled by pressure switches, thermostats, etc.

CE APPROVAL IN ACCORDANCE
WITH EN 16 1

COMPLIANCE DIRECTIVE
2009/142 / EC (GAS DIRECTIVE)

COMPLIANCE WITH DIRECTIVE
94/9 / EC (ATEX DIRECTIVE)

COMPLIANCE WITH DIRECTIVE
2004 / 108 / EC
(ELECTROMAGNETIC COMPATIBILITY)

COMPLIANCE WITH DIRECTIVE
2006 / 95 / EC (LOW VOLTAGE)

1EV EV005	N.C. ½" solenoid valve DN15 threaded 230V 50-60 Hz aluminium body int. 70
1EV EV006	N.C. ¾" solenoid valve DN20 threaded 230V 50-60 Hz aluminium body int. 70
1EV EV007	N.C. 1" solenoid valve DN25 threaded 230V 50-60 Hz aluminium body int. 90
1EV EV017	N.C. 1" ¼ solenoid valve DN32 threaded 230V 50-60 Hz aluminium body int. 160
1EV EV008	N.C. 1" ½ solenoid valve DN40 threaded 230V 50-60 Hz aluminium body int. 160
1EV EV009	N.C. 2" solenoid valve DN50 threaded 230V 50-60 Hz aluminium body int. 160
1EV EV010	N.C. solenoid valve DN65 flanged 230V 50-60 Hz aluminium body int. 290
1EV EV011	N.C. solenoid valve DN80 flanged 230V 50-60 Hz aluminium body int. 310
1EV EV012	N.C. solenoid valve DN100 flanged 230V 50-60 Hz aluminium body int. 350

GAS SOLENOID VALVES, with manual reset NORMALLY OPEN N.O.

The operation principle of the N.O. solenoid valves is very simple and therefore extremely safe. The electromagnetic coil, when powered, releases the valve closing device which is normally open.
The reset is manual to check the causes for gas detection.
During normal operation there is no power consumption, and therefore, in addition to energy saving, no component is subjected to usury.

6 BAR VERSION COMPLIANT WITH
DIRECTIVE 97 / 23 / EC
(PED DIRECTIVE)

COMPLIANCE WITH DIRECTIVE
94 / 9 / EC (ATEX DIRECTIVE)

COMPLIANCE WITH DIRECTIVE
2004 / 108 / EC
(ELECTROMAGNETIC COMPATIBILITY)

COMPLIANCE WITH DIRECTIVE
2006 / 95 / EC (LOW VOLTAGE)

|	
1EV EV020	N.O. ½" solenoid valve DN15 threaded 230V 50-60 Hz brass body int. 66
1EV EV021	N.O. ¾" solenoid valve DN20 threaded 230V 50-60 Hz brass body int. 66
1EV EV022	N.O. 1" solenoid valve DN25 threaded 230V 50-60 brass body int. 82
1EV EV027	N.O. 1" ¼ solenoid valve DN32 threaded 230V 50-60 Hz aluminium body int. 160
1EV EV023	N.O. 1" ½ solenoid valve DN32 threaded 230V 50-60 Hz aluminium body int. 160
1EV EV024	N.O. 2" solenoid valve DN40 threaded 230V 50-60 Hz aluminium body int. 160
1EV EV025	N.O. solenoid valve DN65 flanged 230V 50-60 Hz aluminium body int. 280
1EV EV026	N.O. solenoid valve DN80 flanged 230V 50-60 Hz aluminium body int. 310

INTERMITTENT SERVICE TRANSFORMERS

1TD TR10SI/QOD 10VA transformer for intermittent service, outputs 4-8-12V - 2 DIN

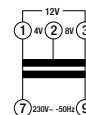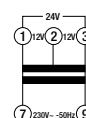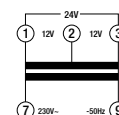Power supply 230V a.c. – 50Hz
Outputs 4-8-12V

Installation on rear of switchboard IP 40
Dimensions (L x W x H) 35 x 60 x 90 mm
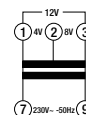
1TD TR15SI/QOD 15VA transformer for intermittent service, outputs 4-8-12V - 2 DIN

Power supply 230V a.c. – 50Hz
Outputs 4-8-12V

Installation on rear of switchboard IP 40
Dimensions (L x W x H) 35 x 60 x 90 mm

1TD TR15SI/DDV 15VA transformer for intermittent service, outputs 12-12-24V 2 DIN

Power supply 230V a.c. – 50Hz
Outputs 12-12-24V

Installation on rear of switchboard IP 40
Dimensions (L x W x H) 35 x 60 x 90 mm

1TD TR30SI/DDV 30VA transformer for intermittent service, outputs 12-12-24V - 3 DIN

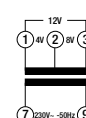Power supply 230V a.c. – 50Hz
Outputs 12-12-24V

Installation on rear of switchboard IP 40
Dimensions (L x W x H) 52.5 x 60 x 90 mm

1TD TR01402/N 10VA transformer for intermittent service, outputs 4-8-12V, wall-mounted

Power supply 230V a.c. – 50Hz
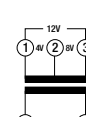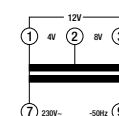Outputs 4-8-12V
Wall-mounted IP 30

Installation on rear of switchboard IP 40
Dimensions (L x W x H) 35 x 60 x 128 mm

1TD TR01403/N 15VA transformer for intermittent service, outputs 4-8-12V, wall-mounted

Power supply 230V a.c. – 50Hz
Outputs 4-8-12V
Wall-mounted IP 30

Installation on rear of switchboard IP40
Dimensions (L x W x H) 35 x 60 x 128 mm

1TD TR01409/N 20VA transformer for intermittent service, outputs 4-8-12V, wall-mounted

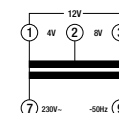Power supply 230V a.c. – 50Hz
Outputs 4-8-12V
Wall-mounted IP30

Installation on the rear of the
switchboard IP40
Dimensions (L x W x H) 52.5 x 60 x 128 mm

1TD TR01404/N 25VA transformer for intermittent service, outputs 4-8-12V, wall-mounted

Power supply 230V a.c. – 50Hz
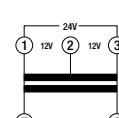Outputs 4-8-12V
Wall-mounted IP 30

Installation on rear of switchboard IP 40
Dimensions (L x W x H) 52.5 x 60 x 128 mm

1TD TR01435/N 40VA transformer for intermittent service, outputs 12-12-24V, wall-mounted

Power supply 230V a.c. – 50Hz
Outputs 12-12-24V
Wall-mounted IP 30

Installation on rear of switchboard IP 40
Dimensions (L x W x H) 52.5 x 60 x 128 mm

1TD TR010/QOD 10VA transformer for continuous service, outputs 4-8-12V - 2 DIN

Power supply 230V a.c. – 50Hz
Outputs 4-8-12V

Installation on rear of switchboard IP 40
Dimensions (L x W x H) 35 x 60 x 90 mm

1TD TR010/DDV 10VA transformer for continuous service, outputs 12-12-24V - 2 DIN

Power supply 230V a.c. – 50Hz
Outputs 12-12-24V

Installation on rear of switchboard IP 40
Dimensions (L x W x H) 35 x 60 x 90 mm

1TD TR015/QOD 15VA transformer for continuous service, outputs 4-8-12V - 2 DIN

Power supply 230V a.c. – 50Hz
Outputs 4-8-12V

Installation on rear of switchboard IP 40
Dimensions (L x W x H) 35 x 60 x 90 mm

1TD TR015/DDV 15VA transformer for continuous service, outputs 12-12-24V - 2 DIN

Power supply 230V a.c. – 50Hz
Outputs 12-12-24V

Installation on rear of switchboard IP 40
Dimensions (L x W x H) 35 x 60 x 90 mm

1TD TR024/DDV 24VA transformer for continuous service, outputs 12-12-24V - 3 DIN

Power supply 230V a.c. – 50Hz
Outputs 12-12-24V

Installation on rear of switchboard IP 40
Dimensions (L x W x H) 52.5 x 60 x 90 mm

1TD TR030/DDV 30VA transformer for continuous service, outputs 12-12-24V - 3 DIN

Power supply 230V a.c. – 50Hz
Outputs 12-12-24V

Installation on rear of switchboard IP 40
Dimensions (L x W x H) 52.5 x 60 x 90 mm

1TD TR040/DDV 40VA transformer for continuous service, outputs 12-12-24V - 3 DIN

Power supply 230V a.c. – 50Hz
Outputs 12-12-24V
Installation on terminal board IP 20

Installation on rear of switchboard IP 40
Dimensions (L x W x H) 52.5 x 60 x 90 mm

1TD TR063/DDV 63VA transformer for continuous service, outputs 12-12-24V - 6 DIN

Power supply 230V a.c. – 50Hz
Outputs 12-12-24V
Installation on terminal board IP 20

Installation on rear of switchboard IP 40
Dimensions (L x W x H) 105 x 60 x 90 mm

ACCESSORIES

1PA KTM02 Kit with base + terminal covers for 2 DIN transformers

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1PA KTM03 Kit with base + terminal covers for 3 DIN transformers

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1PA KTM06 Kit with base + terminal covers for 6 DIN transformers

CHIMES, DIN DON, BUZZERS

1SU 4341 - 12V
1SU 4351 - 230V
Shrill chime

• Power supply 12V a.c. (4341) - 230V a.c. (4351)
• Wall-mounted / semi-recessed installation in a round box

• Dimensions (D x W) 80 x 44 mm

1SU 4491 - 12V
1SU 4481 - 230V
1SU 4411 - 12-230V
Din Don

• Power supply 12V a.c. (4491) - 230V (4481)
  12-230V a.c. (4411)

• Wall-mounted
• Dimensions (L x W x H) 150 x 47 x 92 mm

1SU 4421 - 230V
1SU 4431 - 12V
Din Don with buzzer

• Power supply 230V a.c. (4421) - 12V a.c. (4431)
• Wall-mounted

• Dimensions (L x W x H) 150 x 47 x 92 mm

1SU 4441
Din Don 12V with buzzer 12V and transformer 230-12V for low voltage control

• Power supply 230V a.c.
• Wall-mounted

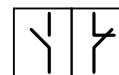• Dimensions (L x W x H) 150 x 47 x 92 mm

1RI 0112AC/I
Electromechanical step relay 12V a.c.

- Power supply 12 V a.c. 50 / 60 Hz
- Contacts 10 A / 250 V a.c.
- Mechanical - sequential operation
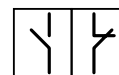- Available contacts: 1 contact 2 sequences

- Panel / recess mounting
- Presetting of fastening holes with screws
- Dimensions (L x W x H) 45 x 22 x 45 mm

1RI 0124AC/I
Electromechanical step relay 24V a.c.

- Power supply 24 V a.c. 50 / 60 Hz
- Contacts 10 A / 250 V a.c.
- Mechanical - sequential operation
- Available contacts: 1 contact 2 sequences

- Panel / recess mounting
- Presetting of fastening holes with screws
- Dimensions (L x W x H) 45 x 22 x 45 mm

1RI 01230AC/I
Electromechanical step relay 230V a.c.

- Power supply 230V a.c. 50 / 60 Hz
- Contacts 10 A / 250 V a.c.
- Mechanical - sequential operation
- Available contacts: 1 contact 2 sequences

- Panel / recess mounting
- Presetting of fastening holes with screws
- Dimensions (L x W x H) 45 x 22 x 45 mm

1RI 0212AC/I
Electromechanical step relay 12V a.c.

- Power supply 12 V a.c. 50 / 60 Hz
- Contacts 10 A / 250 V a.c.
- Mechanical - sequential operation
- Available contacts: 2 contacts 2 sequences

- Panel / recess mounting
- Presetting of fastening holes with screws
- Dimensions (L x W x H) 45 x 22 x 45 mm

1RI 0224AC/I
Electromechanical step relay 24V a.c.

- Power supply 24 V a.c. 50 / 60 Hz
- Contacts 10 A / 250 V a.c.
- Mechanical - sequential operation
- Available contacts: 2 contacts 2 sequences

- Panel / recess mounting
- Presetting of fastening holes with screws
- Dimensions (L x W x H) 45 x 22 x 45 mm

1RI 02230AC/I
Electromechanical step relay 230V a.c.

- Power supply 230V a.c. 50 / 60 Hz
- Contacts 10 A / 250 V a.c.
- Mechanical - sequential operation
- Available contacts: 2 contacts 2 sequences

- Panel / recess mounting
- Presetting of fastening holes with screws
- Dimensions (L x W x H) 45 x 22 x 45 mm

1RI 0412AC/I
Electromechanical step relay 12V a.c.

- Power supply 12 V a.c. 50 / 60 Hz
- Contacts 10 A / 250 V a.c.
- Mechanical - sequential operation
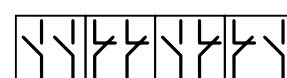- Available contacts: 2 contacts 4 sequences

- Panel / recess mounting
- Presetting of fastening holes with screws
- Dimensions (L x W x H) 45 x 22 x 45 mm

1RI 04230AC/I
Electromechanical step relay 230V a.c.

- Power supply 230V a.c. 50 / 60 Hz
- Contacts 10 A / 250 V a.c.
- Mechanical - sequential operation
- Available contacts: 2 contacts 4 sequences

- Panel / recess mounting
- Presetting of fastening holes with screws
- Dimensions (L x W x H) 45 x 22 x 45 mm

1RI 0612AC/I
Electromechanical step relay 12V a.c.

- Power supply 12 V a.c. 50 / 60 Hz
- Contacts 10 A / 250 V a.c.
- Mechanical - sequential operation
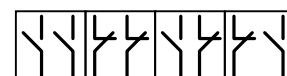- Available contacts: 2 contacts 3 sequences
- Panel / recess mounting
- Presetting of fastening holes with screws
- Dimensions (L x W x H) 45 x 22 x 45 mm

1RI 0624AC/I
Electromechanical step relay 24 V a.c.

- Power supply 24 V a.c. 50 / 60 Hz
- Contacts 10 A / 250 V a.c.
- Mechanical - sequential operation
- Available contacts: 2 contacts 3 sequences
- Panel / recess mounting
- Presetting of fastening holes with screws
- Dimensions (L x W x H) 45 x 22 x 45 mm

1RI 06230AC/I
Electromechanical step relay 230V a.c.

- Power supply 230V a.c. 50 / 60 Hz
- Contacts 10 A / 250 V a.c.
- Mechanical - sequential operation
- Available contacts: 2 contacts 3 sequences
- Panel / recess mounting
- Presetting of fastening holes with screws
- Dimensions (L x W x H) 45 x 22 x 45 mm

1VA CPL001 Capacitor for luminous push buttons
Capacitor to be used with step relays in case of systems with luminous push buttons

1RI 01110ACPC
Electromechanical step relay 110V a.c. ready for capacitor

- Power supply 110 V a.c. 50 / 60 Hz
- Contacts 10 A / 250 V a.c.
- Mechanical - sequential operation
- Available contacts: 1 contact 2 sequences
- Panel / recess mounting
- Predisposition for fastening holes with screws
- Ready for clip-on capacitor
- Dimensions (L x W x H) 35 x 22 x 45 mm

1RI 01230ACPC
Electromechanical step relay 230V a.c. ready for capacitor

- Power supply 110 V a.c. 50 / 60 Hz
- Contacts 10 A / 250 V a.c.
- Mechanical - sequential operation
- Available contacts: 1 contact 2 sequences
- Panel / recess mounting
- Predisposition for fastening holes with screws
- Ready for clip-on capacitor
- Dimensions (L x W x H) 35 x 22 x 45 mm

1RI 04110ACPC
Electromechanical step relay 110V a.c. ready for capacitor

- Power supply 110 V a.c. 50 / 60 Hz
- Contacts 10 A / 250 V a.c.
- Mechanical - sequential operation
- Available contacts: 2 contacts 4 sequences
- Panel / recess mounting
- Predisposition for fastening holes with screws
- Ready for clip-on capacitor
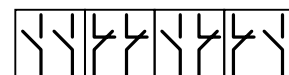- Dimensions (L x W x H) 35 x 22 x 45 mm

1RI 04230ACPC
Electromechanical step relay 230V a.c. ready for capacitor

- Power supply 230V a.c. 50 / 60 Hz
- Contacts 10 A / 250 V a.c.
- Mechanical - sequential operation
- Available contacts: 2 contacts 4 sequences
- Panel / recess mounting
- Predisposition for fastening holes with screws
- Ready for clip-on capacitor
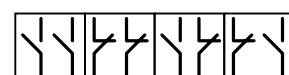- Dimensions (L x W x H) 35 x 22 x 45 mm

1RI 06110ACPC
Electromechanical step relay 110V a.c. ready for capacitor

- Power supply 110 V a.c. 50 / 60 Hz
- Contacts 10 A / 250 V a.c.
- Mechanical - sequential operation
- Available contacts: 2 contacts 4 sequences
- Panel / recess mounting
- Predisposition for fastening holes with screws
- Ready for clip-on capacitor
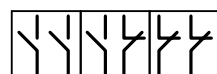- Dimensions (L x W x H) 35 x 22 x 45 mm

ELECTROMECHANICAL STEP RELAYS

1RI 06230ACPC
Electromechanical step relay 230V a.c. ready for capacitor

- Power supply 230V a.c. 50 / 60 Hz
- Contacts 10 A / 250 V a.c.
- Mechanical - sequential operation
- Available contacts: 2 contacts 3 sequences
- Panel / recess mounting
- Predisposition for fastening holes with screws
- Ready for clip-on capacitor
- Dimensions (L x W x H) 35 x 22 x 45 mm

1VA CPL002 Clip-on capacitor for luminous push buttons
Clip-on capacitor to be used in step relays in case of systems with luminous push buttons

Dimensions (L x W x H) 35 x 22 x 17.5 mm

1RI 0212AC/M
Electromechanical step relay 12V - 1 DIN

- Power supply 12 V a.c. 50 / 60 Hz
- Contacts 16 A / 250 V a.c.
- Mechanical - sequential operation
- Available contacts: 2 contacts 2 sequences
- Installation on DIN rail
- Control button
- Dimensions (L x W x H) 17.5 x 60 x 90 mm

1RI 0224AC/M
Electromechanical step relay 24V - 1 DIN

- Power supply 24 V a.c. 50 / 60 Hz
- Contacts 16 A / 250 V a.c.
- Mechanical - sequential operation
- Available contacts: 2 contacts 2 sequences
- Installation on DIN rail
- Control button
- Dimensions (L x W x H) 17.5 x 60 x 90 mm

1RI 02230AC/M
Electromechanical step relay 230V - 1 DIN

- Power supply 230V a.c. 50 / 60 Hz
- Contacts 16 A / 250 V a.c.
- Mechanical - sequential operation
- Available contacts: 2 contacts 2 sequences
- Installation on DIN rail
- Control button
- Dimensions (L x W x H) 17.5 x 60 x 90 mm

1RI 0412AC/M
Electromechanical step relay 12V - 1 DIN

- Power supply 12 V a.c. 50 / 60 Hz
- Contacts 16 A / 250 V a.c.
- Mechanical - sequential operation
- Available contacts: 2 contacts 4 sequences
- Installation on DIN rail
- Control button
- Dimensions (L x W x H) 17.5 x 60 x 90 mm

1RI 0424AC/M
Electromechanical step relay 24V - 1 DIN

- Power supply 24 V a.c. 50 / 60 Hz
- Contacts 16 A / 250 V a.c.
- Mechanical - sequential operation
- Available contacts: 2 contacts 4 sequences
- Installation on DIN rail
- Control button
- Dimensions (L x W x H) 17.5 x 60 x 90 mm

1RI 04230AC/M
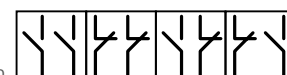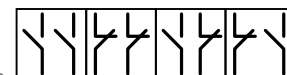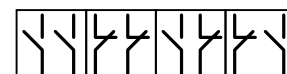**Electromechanical step relay 230V - 1 DIN**

- Power supply 230V a.c. 50 / 60 Hz
- Contacts 16 A / 250 V a.c.
- Mechanical - sequential operation
- Available contacts: 2 contacts 4 sequences
- Installation on DIN rail
- Control button
- Dimensions (L x W x H) 17.5 x 60 x 90 mm

DIGITAL AND ELECTRONIC MULTIVOLTAGE, MULTIFUNCTION, TIMER RELAY 1 DIN

1RT 200/MT/MF
Multifunction, multi-voltage timer relay with display - 1 DIN

- Power supply 12 - 24 - 48 - 110 - 230V a.c. 50 / 60Hz
- Controllable load (in AC1) 16 A / 250 V a.c.
- Controllable load (in AC15) 3 A / 240V a.c.
- Potential-free changeover contact
- 14 functions available in the display
- Double timer T1, T2 independently adjustable

- Backlit display, amber color
- Digital adjustment of work times, hours, minutes, seconds and tenths of seconds
- Load operation hour counter
- Dimensions (L x W x H) 17.5 x 60 x 90 mm

1RT 80S
Multivoltage STAR DELTA timer relay 1 DIN

- It serves for delay ON of three-phase motor star/delta
- Time t1 (star)
  - Time range setting by rotary switch
  - Fine time setting by potentiometer
- Time t2 delay between λ/Δ
  - Fine time setting by potentiometer
- Red LED multifunction flashes or shines depending on the operating status

- Supply terminals A1 – A2
- Power supply AC/DC 12-240 V (AC 50/60 Hz)
- Power input (max.) 2 VA/1,5 W
- Supply voltage tolerance -15% +10%
- Supply indication green LED
- Time scale t1: 0,1 s - 100 days, t2: 0,1 s - 1 s
- Setting switch and potentiometer
- Time tolerance 5% mechanical setting
- Accuracy repeat 0,2% on the set value
- Output type 2 changeover contacts
- Contacts material AgNi
- Current rating 16 A / AC1
- Inrush current 30 A / 3 s
- Breaking capacity 4.000 VA / AC1, 384 W/DC
- Switching voltage 250V AC/24V DC
- Power dissipation(contacts) max 1.2 W
- Output indication multifunction red LED

- Electrical life 50.000 operations
- Mechanical life 10.000.000 operations
- Reset time max. 150 ms
- Civil / tertiary / industrial use
- Type installation DIN rail
- Protection degree (IP) IP20 / IP40 rear panel
- Dielectrical strength 4.000 V ac
- Max cross-section of wires to terminals 1 x 2,5 or 2 x 1,5 mmq, 1 x 2,5 mmq with cable lug
- Operating temperature -20 ÷ 55°C
- Storing temperature -30 ÷ 70°C
- Degree of pollution 2
- Overvoltage category III
- Standard EN 61812-1
- Dimensions (L x W x H) mm 17,6 x 64 x 90
- Weight 78 g.

1RT 80MTMF
Multifunction, multivoltage timer relay 1 DIN

- Multifunction relay for universal use in automation, control and regulation or in house installations.
- Easy function and well-organized time set with rotary switch
- Multifunction red led flashes or shines depending on the operating status

- Supply terminals A1 – A2
- Power supply AC/DC 12-240 V (AC 50/60 Hz)
- Power input (max.) 2 VA/1,5 W
- Time tolerance -15% +10%
- Supply indication green LED
- Time scale t1: 0,1 s - 10 days,
- Setting switch and potentiometer
- Time tolerance 5% mechanical setting
- Accuracy repeat 0,2% on the set value
- Output type 1 changeover contact
- Contacts material AgNi
- Current rating 16 A / AC1
- Breaking capacity 4.000 VA / AC1, 384 W/DC
- Switching voltage 250V AC/24V DC
- Power dissipation(contacts) max 1.2 W
- Output indication multifunction red LED
- Electrical life 50.000 operations

- Mechanical life 10.000.000 operations
- Pulse length min 25ms / max no limits
- Reset time max. 150 ms
- Civil / tertiary / industrial use
- Type installation DIN rail
- Protection degree (IP) IP20 / IP40 rear panel
- Dielectrical strength 4.000 V ac
- Max cross-section of wires to terminals 1 x 2,5 o 2 x 1,5 mmq, 1 x 2,5 mmq with cable lug
- Operating temperature -20 ÷ 55°C
- Storing temperature -30 ÷ 70°C
- Degree of pollution 2
- Overvoltage category III
- Standard EN 61812-1
- Dimensions (L x W x H) mm 17,6 x 64 x 90
- Weight 62 g.

ELECTRONIC MULTIVOLTAGE, MULTIFUNCTION, TIMER RELAY 1 DIN

1RT 80A
Single-function time relay with delay on the switch on 1 DIN
1RT 80B
Single-function time relay INTERVAL ON 1 DIN
1RT 80C
Single-function time relay OFF delay 1 DIN
1RT 80E
Single-function time relay FLASHER – ON first 1 DIN

• Singlefunction time relays are suitable for applications where there is a clear function requirement in advance and for universal use in automation, control and regulation or in house installations.

• Choice of four types: A, B, C, E.

• All functions initiated by the supply voltage can use the control input to inhibit the ongoing delay (pause)

• Multifunction red LED flashes or shines depending on the operating status.

• Supply terminals A1 – A2
• Power supply AC/DC 12-240 V (AC 50/60 Hz)
• Power input (max.) 2 VA/1,5 W
• Time tolerance -15% +10%
• Supply indication green LED
• Time scale t1: 0,1 s - 100 hours
• Setting switch and potentiometer
• Time tolerance 5% mechanical setting
• Accuracy repeat 0,2% on the set value
• Output type 1 changeover contact
• Contacts material AgNi
• Current rating 16 A / AC1
• Breaking capacity 4.000 VA / AC1, 384 W/DC
• Switching voltage 250V AC/24V DC
• Power dissipation(contacts) max 1.2 W
• Output indication multifunction red LED

• Electrical life 50.000 operations
• Mechanical life 10.000.000 operations
• Reset time max. 150 ms
• Civil / tertiary / industrial use
• Type installation DIN rail
• Protection degree (IP) IP20 / IP40 rear panel
• Dielectrical strength 4.000 V ac
• Max cross-section of wires to terminals
  1 x 2,5 o 2 x 1,5 mmq, 1 x 2,5 mmq with cable lug
• Operating temperature -20 ÷ 55°C
• Storing temperature -30 ÷ 70°C
• Degree of pollution 2
• Overvoltage category III
• Standard EN 61812-1
• Dimensions (L x W x H) mm 17,6 x 64 x 90
• Weight 61 g

MEASURING INSTRUMENTS

1SD SD02AV/2
Ammeter and voltmeter for alternate current measurements - 2 DIN

- Digital modular voltmeter and ammeter for alternate current measurements with 3-digit LED display
- Power supply 230V a.c. +-10% 50-60Hz
- Input voltage 0..500V max a.c. (45…100Hz)
- Input current 5A a.c.
- CAT III 300V
- Amperometric loads between 5 and 999 A with TA
- Reading accuracy class 0.5%
- Dimensions (L x W x H) 35 x 63 x 85 mm

1SD SD03A/2
Ammeter for alternate current measurements - 2 DIN

- Digital modular ammeter for alternate current measurements with 3-digit LED display
- Power supply 230V a.c. +-10% 50-60Hz
- Input current Inom= 5A Imax= 6A a.c.
- CAT III 300V
- Amperometric loads between 5 and 999 A with TA
- Reading accuracy class 0.5%
- Dimensions (L x W x H) 35 x 63 x 85 mm

1SD SD04V/2
Voltmeter for alternate current measurements - 2 DIN

- Digital modular voltmeter for alternate current measurements with 3-digit LED display
- Power supply 230V a.c. +-10% 50-60Hz
- Input voltage 0..500V max a.c. (45…100Hz)
- input impedance=1.5Mohm
- CAT III 300V
- Amperometric loads between 5 and 999 A with TA
- Reading accuracy class 0.5%
- Dimensions (L x W x H) 35 x 63 x 85 mm

1SD SD05MM/2
Single-phase multimeter - 2 DIN

- Digital single-phase multimeter with 3-digit LED display on 2 lines
- Voltage measurement 0-230V
- Current measurement 0.1-26A (30A)
- Active Power Measurement 8.00kW
- Active Energy Measurement (Wh) on 2 lines
- Accounting period 15 min
- Direct connection energy count 9.99 / 999 kWh
- Measurement of the power factor
- Hour counter
- Digital filter
- Dimensions (L x W x H) 35 x 63 x 85 mm

1SD SD10MT/2
Three-phase multimeter - 2 DIN

- Digital three-phase multimeter with 3-digit LED display on 2 lines
- Phase-phase voltage VL1, VL2, VL3
- Phase-neutral voltage VL1-N, VL2-N, VL3-N
- Average VL phase average voltage
- Phase current I1, I2, I3
- Phase average current I average
- Current in "len" neutral (<imbalance>)
- Basic active power
- Dimensions (L x W x H) 35 x 63 x 85 mm

1CO 2400 - 24V a.c.
1CO 1100 - 110V a.c.
1CO 2200 - 220V a.c.
1CO 3800 - 380V a.c.
1CO CC1236 - 10-50V d.c.
Hour counter

- Recording ability 99,999.99
- Installed in the panel / on rear of switchboard
- Dimensions (L x W x H) 55 x 56 x 55 mm

1CO CO24/2 - 24V a.c.
1CO CO110/2 - 110V a.c.
1CO CO230/2 - 230V a.c.
1CO CO36C/2 - 12-36V d.c.
Hour counter - 2 DIN

- Power supply <10VA
- Recording ability 99,999.99
- Accuracy class 0.5% - 1% (CO36C/2)
- Reading accuraacy 1/100h (36sec) - 1/10h 6min (CO36C/2)
- Dimensions (L x W x H) 35 x 63 x 85 mm

1SD SD05CEM/2
Single-phase analog energy counter - 2 DIN

It accounts for the ACTIVE energy consumption in single-phase 230V systems, up to a maximum current of 100A with an impulsive output of 100ms for each consumed Wh: open collector transistor 5-27 V d.c. max 27 mA d.c.

- 230V power supply c.a. ± 10% 50-60Hz
- Digit number 5 numbers + 1 decimal
- Reading resolution 0.1 KWh
- Rated voltage 230V
- Input current 100A max
- Current / Minimum measurable power 40 mA / 9 W
- Accuracy Class 1 IEC62053-21, Class B EN50470-3
- Dimensions (L x W x H) 36 x 63 x 99 mm

1SD SD06CEM/1
Single-phase analog energy counter - 1 DIN

It accounts for the ACTIVE energy consumption in single-phase 230V systems, up to a maximum current of 45A with direct connection, with an impulsive output: transistor open collector 5-27 d.c. max 27 mA d.c.

- 230V power supply c.a. ± 10% 50-60Hz
- Digit number 5 numbers + 1 decimal
- Reading resolution 0.1 KWh
- Rated voltage 230V
- Input current 45A max
- Current / Minimum measurable power 20 mA / 4,5 W
- Accuracy Class 1 IEC62053-21, Class B EN50470-3
- Dimensions (L x W x H) 17.5 x 62 x 119 mm

1SD SD05CEM2DGT - Digital
1SD SD05CEM2MID - Digital - MID CERTIFIED
Single-phase digital energy counter - 2 DIN

It regulates the consumption of ACTIVE energy and the electric power in 230V systems c.a. single phase, up to a maximum current of 100A with direct connection, double pulse output: open collector transistor 5-27 V d.c. max 27 mA d.c .. Push-button reset for partial consumption readings

- 230V power supply c.a. ± 10% 50-60Hz
- Number of digits 6 numbers + 1 decimal
- Reading resolution 0.1 KWh
- Rated voltage 230V
- Input current 100A max
- Current / Minimum measurable power 40 mA / 9 W
- MID certificate (CEM2MID)
- Accuracy Class 1 IEC62053-21, Class B EN50470-3
- Dimensions (L x W x H) 36 x 63 x 99 mm

1SD SD06CEM1DGT - Digital
1SD SD06CEM1MID - Digital - MID CERTIFIED
Single-phase digital energy counter - 1 DIN

It regulates the consumption of active energy in 230V systems c.a. single phase, up to a maximum current of 45A with direct connection, with impulsive output: open collector transistor 5-27 V d.c. max 27 mA d.c.

- 230V power supply c.a. ± 10% 50-60Hz
- Number of digits 5 numbers + 1 decimal
- Reading resolution 0.1 KWh
- Input current 45A max
- Current / Minimum measurable power 20 mA / 4,5 W
- MID certificate (CEM1MID)
- Accuracy Class 1 IEC62053-21, Class B EN50470-3
- Dimensions (L x W x H) 17.5 x 62 x 119 mm

1SD SD10CET4MID
Three-phase digital energy counter 100A 4 DIN, MID Certified

It regulates the consumption of ACTIVE energy and the electric power in 400V systems c.a. three-phase with neutral up to a maximum current of 100A
Impulsive output: open collector transistor
Impulsive output: 30ms 1000 pulse / kWh
- 400 power supply c.a. ± 20% 50Hz
- Reading resolution 0.1 KWh
- Digit number 6 numbers + 1 decimal
- Rated voltage 3x230/400V
- Input current 100A max
- Class B EN50470-3, MID
- Dimensions (L x W x H) 72 x 100 x 66 mm

LEVEL REGULATORS

1CL RLG01/3PVC - PVC cable 3x1 - **3 m long**
1CL RLG02/5PVC - PVC cable 3x1 - **5 m long**
1CL RLG03/10PVC - PVC cable 3x1 - **10 m long**
1CL RLG04/15PVC - PVC cable 3x1 - **15 m long**
1CL RLG05/20PVC - PVC cable 3x1 - **20 m long**
1CL RLG06/25PVC - PVC cable 3x1 - **25 m long**
Floating level regulator for clear water

1CL RLG025NEOP - NEOPRENEcable 3x1 - **5 m long**
1CL RLG0310NEOP - NEOPRENEcable 3x1 - **10 m long**
1CL RLG0520NEOP - NEOPRENEcable 3x1 - **20 m long**

- Electric range 10 (8) A / 250 V
- Operating Temperature 0-50°C
- Pressure resistance 1 BAR

- Protection degree IP 68
- Dimensioni (L x W x H) 81 x 131 x 42 mm

1CL RLG10/5PVC - PVC cable 3x1 - **5 m long**
1CL RLG11/10PVC - PVC cable 3x1 - **10 m long**
1CL RLG12/20PVC - PVC cable 3x1 - **20 m long**
Floating level regulator for sewage water

1CL RLG20/5NEOP - NEOPRENEcable 3x1 - **5 m long**
1CL RLG21/10NEOP - NEOPRENEcable 3x1 - **10 m long**
1CL RLG22/20NEOP - NEOPRENEcable 3x1 - **20 m long**

- Electric range 10 (8) A / 250 V
- Switching angle ±45°
- Operating Temperature 0-50°C

- Pressure resistance 2 BAR
- Protection degree IP 68
- Dimensioni (L x W x H) 117 x 117 x 222 mm

1CL RLG3005PVC - PVC cable 3x1 - **5 m long**
1CL RLG3010PVC - PVC cable 3x1 - **10 m long**
1CL RLG3020PVC - PVC cable 3x1 - **20 m long**
1CL RLG3005NEOP - NEOPRENEcable 3x1 - **5 m long - ENEC Approved**
1CL RLG3010NEOP - NEOPRENEcable 3x1 - **10 m long - ENEC Approved**
1CL RLG3020NEOP - NEOPRENEcable 3x1 - **20 m long - ENEC Approved**   ENEC **03**
Floating level regulator for sewage water

- Electric range 10 (3) A / 250 V
- Switching angle ±10°
- Operating Temperature 0-50°C

- Pressure resistance 2 BAR
- Protection degree IP 68
- Dimensions (L x W x H) 100 x 100 x 156 mm

1CL RLE024/2 - **24V**
1CL RLE230/2 - **230V**
Electronic level regulator 24V - 2 DIN

- Power supply 24V 50-60 Hz (RLE024/2)
  230V 50-60 Hz (RLE230/2)
- Electrode voltage 12V
- Relay range 5A / 250 V
- Adjustable sensitivity

- Max. connection length between control unit and probes, approx. 70-80m
- Installation on terminal board IP 20
- Installation on rear of switchboard IP 40
- Dimensions (L x W x H) 37 x 58 x 95 mm

1CL RLEME/3
Multivoltage electronic level regulator series E evolved - 3 DIN

- Power supply 24/117/230V 50-60 Hz
- Electrode voltage 12Vpp
- Range of 1st relay 5A / 250 V
- Range of 2nd relay 2A / 250 V
- Adjustable intervention delay 0 - 16sec
- Emptying / filling intervention mode

- Max. connection length between control unit and probes, approx. 1000m
- Installation on terminal board IP 20
- Installation on rear of switchboard IP 40
- Dimensions (L x W x H) 53 x 58 x 95 mm

1CL RLE230E/2
Electronic level regulator 230V series E evolved - 2 DIN

- Power supply 230V 50-60 Hz
- Electrode voltage 12Vpp
- Relay range 5A / 250 V
- Adjustable intervention delay 0 - 16sec
- Emptying / filling intervention mode

- Max. connection length between control unit and probes, approx. 1000m
- Installation on terminal board IP 20
- Installation on rear of switchboard IP 40
- Dimensions (L x W x H) 37 x 58 x 95 mm

ACCESSORIES

1CL SF010 Probe with electronic wire connection

- Installation directly in the liquid
- Max. operating temperatures 80°C

- Dimensions (D x L) 22 x 85 mm

1CL ST021 3-conductor probe holder
- Installation hole D 65mm
- Max. operating temperatures 80°C

- Dimensions (D x L) 80 x 72 mm

PERRY

AUTOMATIC HYGIENIC DEVICES

1DC AMF08
"DUO" serie automatic hand dryer, white
1DC AMF08G
"DUO" serie automatic hand dryer, grey

410 km/h

The ergonomic design allows the insertion of the hands in a natural way.
A double jet of clean air at over 410 km / h wraps the hands on both sides, allowing perfect drying and elimination of the sensation of humidity, in just 12 - 15 seconds.

- Power supply 220V - 240V
- Automatic operation
- 28.000 rpm engine
- IP31 - CLASS II
- Power: total 1450 W
      resistance 350 W
      engine 1100 W
- Air speed 410 km/h
- Air volume 52 l/sec.

- Double antibacterial filter
- Double UV lamp for sanitization of the engine block
- Noise level 73 dB (A) at 2 m
- Material ABS
- Weight 6,56 kg
- Dimensions (LxWxH) 566 x 296 x 177 mm

Water collection tray, under which there is the ON / OFF button for managing the electrical resistance

Safety lock for the water collection tray

1DC AMF06
"MISTRAL" serie automatic hand dryer with infrared sensor, white ABS
1DC AMF06B
"MISTRAL" serie automatic hand dryer with infrared sensor, white stainless steel
1DC AMF06CS
"MISTRAL" serie automatic hand dryer with infrared sensor, satin stainless steel

300 km/h

Mistral electric hand dryer ideal for high turnout, superfast and energy saving. Integrated and certi fi ed antibacterial action, with antibacterial fi lter and UV lamp as standard equipment. Complete range with vandal-proof stainless steel versions.

- Power supply 220V - 240V
- Infrared sensor
- 26.000 rpm engine
- IP23 - CLASS II
- Power: total 1100 W
      resistance 550 W
      engine 550 W

- Antibacterial filter
- UV lamp for sanitization of the engine
- Air speed 300 km/h
- Air volume 52 l/sec.
- Noise level 75 dB (A) at 2 m
- Polypropylene - stainless steel AISI 304
- Dimensions (LxWxH) 285 X 221 X 157 mm

1DC AMF05
"EOLO JET" serie automatic hand dryer with infrared sensor, white
1DC AMF05C
"EOLO JET" serie automatic hand dryer with infrared sensor, chrome

200 km/h

With a depth of less than 10 cm "EOLO JET" is one of the smallest towels on the market. The quick drying combined with a power of only 900 W allow significant energy savings.

- Power supply 220V - 240V
- Electronic infrared sensor
- 28.000 rpm engine
- IP23 - CLASS II
- Power: total 900 W
      resistance 500 W
      engine 400 W

- Air speed 200 km/h
- Air volume31 l/sec.
- Noise level 80 dB (A) at 2 m
- Material ABS
- Weight 1,2 kg
- Dimensions (LxWxH) 238 x156 x 99,5 mm

1DC AMP03 - Push button
1DC AMF04 - Controlled by photocell
Hand dryer series "EOLO"

- Power supply 230V a.c. 50-60Hz
- Commutator motor
- Power 1.500 W
- Air volume 1.450 litres/minute

- Insulation class II
- Air temperature 67°C at 10cm
- Noise level 75 dB (A) at 1m
- Dimensions (L x W x H) 133 x 26 x 280 mm

1DC DS008
Liquid soap dispenser

- Manual operation
- Capacity 1l

- Wall-mounted
- Dimensions (L x W x H) 130 x 95 x 275 mm

1DC DC009
Paper tissue dispenser

- Pull manual operation
- Capacity approx. 600pcs

- Wall-mounted
- Dimensions (L x W x H) 300 x 155 x 295 mm

1DC ACP06
Push button hairdryer series "EOLO"

- Power supply 230V a.c. 50-60Hz
- Commutator motor
- Power 750 W
- Air volume 1.050 litres/minute

- Insulation class II
- Air temperature 56°C at 10cm
- Noise level 75 dB (A) at 1m
- Dimensions (L x W x H) 133 x 26 x 280 mm

1DC ACT10
Nozzle hair dryer series "EOLO"

- Power supply 230V a.c. 50-60Hz
- Commutator motor
- Power 750 W
- Air volume 1.050 litres/minute
- Insulation class II

- Air temperature 71°C at 10 cm
- Noise level 72 dB (A) at 1m
- Dimensions (L x W x H) 206 x 133 x 280 mm + 350 mm tube

1DC ACPH13
Hair dryer for hotels

- Power supply 230V a.c. 50-60Hz
- Power 1.800 W
- on / off button
- Safety thermostat

- 3 temperature position/air flow
- Weight 0,82 kg
- Dimensions (L x W x H) 250 x 220 x 140 + 90 cable mm

1LE 002M
Anti black-out lamp, extractable torch for electric panels - 3 DIN

EN 60598-2-2 - 230V 50/60 Hz
PC - IP20 - IK04

• Power supply 230V c.a. ±15% 50 Hz
• 1 LED 0,5W 20 lumen
• Black-out autonomy 2 h
• Recharge time 36 h
• Replaceable battery Ni-MH 3,6V - 140 mAh
• Consumption 15 mA 3,5 VA
• Protection degree IP20

• Max cross-section of wires to terminals: 0,5..... 1,5 mm²
• Working temperature from 0°C to +40°C
• Storing temperature from -10°C to +60°C
• CE marking reference LVD/EMC EN60598-1,
  EN60598-2-2, EN62471 55015:2006, EN61547
• Dimensions (L x W x H) 38,5 x 60 x 90 mm

1PR WW00822 Battery pack for replacement for emergency light 1LE002M

1LE 002M
Anti black-out lamp, extractable torch for electric panels - 3 DIN

EN 60598-2-2 - 230V 50/60 Hz
PC - IP44 - IK04

• Rapid assembly
• Protection degree IP44 or IP65 with accessory
• Autonomy 1,5 / 3 h depending from model

• Recharge time 24 h
• Dimensions (L x W x H) Ø 97 x 47 / 67 (IP65) mm

Tonda - Transparent diffuser

Standard

SE Multiled / Not Mantained Multiled

IP 44

	OPTICS	COM.	LUMEN	AUTONOMY	Kg	KIT
1LE QS100L	area	-	90 lm	1 h	0,3	20
1LE QV100L	corridor	-	90 lm	1 h	0,3	20
1LE QS200L	area	-	200 lm	1 h	0,3	20
1LE QV200L	corridor	-	200 lm	1 h	0,3	20
1LE QS300L	area	-	300 lm	1 h	0,3	20
1LE QV300L	corridor	-	300 lm	1 h	0,3	20
1LE QS3100L	area	-	90 lm	3 h	0,3	20
1LE QV3100L	corridor	-	90 lm	3 h	0,3	20

SE/SA Multiled / Not Mantained/Mantained Multiled

IP 44

	OPTICS	COM.	LUMEN	AUTONOMY	Kg	KIT
1LE QSL100	area	-	90 lm	1 h	0,3	20
1LE QVL100	corridor	-	90 lm	1 h	0,3	20
1LE QSL200	area	-	200 lm	1 h	0,3	20
1LE QVL200	corridor	-	200 lm	1 h	0,3	20
1LE QSL300	area	-	300 lm	1 h	0,3	20
1LE QVL300	corridor	-	300 lm	1 h	0,3	20
1LE QSL3100	area	-	90 lm	3 h	0,3	20
1LE QVL3100	corridor	-	90 lm	3 h	0,3	20

Autotest

SE Multiled / Not Mantained Multiled

IP 44

	OPTICS	COM.	LUMEN	AUTONOMY	Kg	KIT
1LE QSA100L	area	-	90 lm	1 h	0,3	20
1LE QVA100L	corridor	-	90 lm	1 h	0,3	20
1LE QSA200L	area	-	200 lm	1 h	0,3	20
1LE QVA200L	corridor	-	200 lm	1 h	0,3	20
1LE QSA300L	area	-	300 lm	1 h	0,3	20
1LE QVA300L	corridor	-	300 lm	1 h	0,3	20

SE/SA Multiled / Not Mantained/Mantained Multiled

		OPTICS	COM.	LUMEN	AUTONOMY	Kg	KIT
LITHIUM	1LE QSAL150LI	area	-	150 lm	1 h	0,3	20
LITHIUM	1LE QVAL150LI	corridor	-	150 lm	1 h	0,3	20
LITHIUM	1LE QSAL250LI	area	-	250 lm	1 h	0,3	20
LITHIUM	1LE QVAL250LI	corridor	-	250 lm	1 h	0,3	20
LITHIUM	1LE QSAL3250LI	area	-	250 lm	3 h	0,3	20
LITHIUM	1LE QVAL3250LI	corridor	-	250 lm	3 h	0,3	20

Intelligent DALI

Compatible with **Norma**LINK ◯

⬭ DALI

SE/SA Multiled / Not Mantained/Mantained Multiled

		OPTICS	COM.	LUMEN	AUTONOMY	⚖	KIT
IP 44	LITHIUM **1LE QSIDL150LI**	area	DALI	150 lm	1 h	0,3	20
	LITHIUM **1LE QVIDL150LI**	corridor	DALI	150 lm	1 h	0,3	20
	LITHIUM **1LE QSIDL250LI**	area	DALI	250 lm	1 h	0,3	20
	LITHIUM **1LE QVIDL250LI**	corridor	DALI	250 lm	1 h	0,3	20
	LITHIUM **1LE QSIDL3250LI**	area	DALI	250 lm	3 h	0,3	20
	LITHIUM **1LE QVIDL3250LI**	corridor	DALI	250 lm	3 h	0,3	20

Centralized Battery Systems

IP 44

		OPTICS	COM.	LUMEN	AUTONOMY	⚖	KIT
C24	**1LE QSS4L24**	area	-	200 lm	-	0,3	20
C24	**1LE QVS4L24**	corridor	-	200 lm	-	0,3	20
C24i	**1LE QSIS4L24**	area	-	200 lm	-	0,3	20
C24i	**1LE QVIS4L24**	corridor	-	200 lm	-	0,3	20

Tonda - Opal diffuser

Standard

SE Multiled / Not Mantained Multiled

IP 44

	OPTICS	COM.	LUMEN	AUTONOMY	⚖	KIT
1LE Q100L	area	-	90 lm	1 h	0,3	20
1LE Q200L	area	-	200 lm	1 h	0,3	20
1LE Q300L	area	-	300 lm	1 h	0,3	20
1LE Q3100L	area	-	90 lm	3 h	0,3	20

SE/SA Multiled / Not Mantained/Mantained Multiled

IP 44

	OPTICS	COM.	LUMEN	AUTONOMY	⚖	KIT
1LE QL100L	area	-	90 lm	1 h	0,3	20
1LE QL200L	area	-	200 lm	1 h	0,3	20
1LE QL300	area	-	300 lm	1 h	0,3	20
1LE QL3100	area	-	90 lm	3 h	0,3	20

Autotest

SE Multiled / Not Mantained Multiled

IP 44

	OPTICS	COM.	LUMEN	AUTONOMY	⚖	KIT
1LE QA100L	area	-	90 lm	1 h	0,3	20
1LE QA200L	area	-	200 lm	1 h	0,3	20
1LE QA300L	area	-	300 lm	1 h	0,3	20

SE/SA Multiled / Not Mantained/Mantained Multiled

		OPTICS	COM.	LUMEN	AUTONOMY	⚖	KIT
IP 44	LITHIUM **1LE QAL150LI**	area	-	150 lm	1 h	0,3	20
	LITHIUM **1LE QAL250LI**	area	-	250 lm	1 h	0,3	20
	LITHIUM **1LE QAL3250LI**	area	-	250 lm	3 h	0,3	20

Accessories

Maximum viewing distance (according to EN 1838 for signals with internal lighting)

22 m

1LE QME	Ring with clips for false ceiling installation
1LE QMS	Base IP65
1LE QDB	Blade diffuser
1LE PQL	Sticker pictogram 200 x 100, arrow left for 1LE QDB.
1LE PQR	Sticker pictogram 200 x 100, arrow right for 1LE QDB.
1LE PQSD	Sticker pictogram 200 x 100, arrow down for 1LE QDB.
1LE PQSU	Sticker pictogram 200 x 100, arrow up for 1LE QDB.
1LE S-TE	Command for control up to 300 Standard or Autotest lamp

"NEXT" series emergency lights

EN 60598-2-22 - 230V 50/60 Hz
PC - IP42/IP65 - IK04

- Installable on casing type 503, 502, 506
- Rapid assembly
- Protection degree IP42 or IP65

- Autonomy 1,5 / 3 h depending from model
- Recharge time 12 h
- Dimensions (L x W x H) 252 x 38 (recessed) / 30 x 113 mm

Standard

SE Multiled / Not Maintained Multiled

	COLOR	COM.	LUMEN	AUTONOMY		KIT
1LE L60L0	White	–	60 lm	1,5 h	0,5	20
1LE L100L0	White	–	105 lm	1,5 h	0,6	20
1LE L120L0	White	–	130 lm	1,5 h	0,6	20
1LE L150L0	White	–	170 lm	1,5 h	0,6	20
1LE L200L0	White	–	180 lm	1,5 h	0,6	20
1LE L3100L0	White	–	75 lm	3 h	0,6	20
1LE LE60L0	White	–	60 lm	1,5 h	0,5	20
1LE LE100L0	White	–	105 lm	1,5 h	0,6	20
1LE LE120L0	White	–	130 lm	1,5 h	0,6	20
1LE LE150L0	White	–	170 lm	1,5 h	0,6	20
1LE LE200L0	White	–	180 lm	1,5 h	0,6	20
1LE LE3100L0	White	–	75 lm	3 h	0,6	20

IP 42 / IP 65

SA Multiled / Maintained Multiled

	COLOR	COM.	LUMEN	AUTONOMY		KIT
1LE LL600	White	–	55 lm	1,5 h	0,5	20
1LE LL1000	White	–	100 lm	1,5 h	0,6	20
1LE LL1500	White	–	150 lm	1,5 h	0,6	20
1LE LL31000	White	–	70 lm	3 h	0,6	20
1LE LLE600	White	–	55 lm	1,5 h	0,5	20
1LE LLE1000	White	–	100 lm	1,5 h	0,5	20
1LE LLE1500	White	–	150 lm	1,5 h	0,6	20
1LE LLE31000	White	–	70 lm	3 h	0,6	20

IP 42 / IP 65

Accessories

1LE LFE	Spring for installation in false ceilings
1LE LDB	Blade diffuser
1LE LMEP	Wall recessed casing for wall recessed installation
1LE UAV	Protection cage
1LE USBC	Bracket for ceiling recessed

Maximum viewing distance
(according to EN 1838 for
signals with internal lighting)

22 m

1LE LPNL	Sticker pictogram 215 x 75 mm, arrow left to be placed directly on the lamp
1LE LPNR	Sticker pictogram 215 x 75 mm, arrow right to be placed directly on the lamp
1LE LPNSD	Sticker pictogram 215 x 75 mm, arrow down to be placed directly on the lamp

Maximum viewing distance
(according to EN 1838 for
signals with internal lighting)

15 m

1LE LNL	Sticker pictogram 230 x 110 mm, arrow left for 1LE LBD
1LE LNR	Sticker pictogram 230 x 110 mm, arrow right for 1LE LBD
1LE LNSD	Sticker pictogram 230 x 110 mm, arrow down for 1LE LBD

"GS" series emergency lights

- Rapid assembly
- Protection degree IP44
- Autonomy 1 / 2 / 3 h depending from model

- Recharge time 24 h
- Dimensions (L x W x H) 252 x 40 x 100 mm

Standard

SE Multiled / Maintained Multiled

IP 44

	COLOR	COM.	LUMEN	AUTONOMY	kg	KIT
1LE G60L	White	–	70 lm	1 h	0,3	30
1LE G100L	White	–	110 lm	1 h	0,3	30
1LE G150L	White	–	150 lm	1 h	0,3	30
1LE G200L	White	–	210 lm	1 h	0,3	30
1LE G300L	White	–	325 lm	1 h	0,4	30
1LE G400L	White	–	400 lm	1 h	0,4	30
1LE G500L	White	–	500 lm	1 h	0,4	30
1LE G2300L	White	–	305 lm	2 h	0,4	30
1LE G3100L	White	–	130 lm	3 h	0,4	30
1LE G3200L	White	–	200 lm	3 h	0,4	30

SE Multiled / Maintained Multiled

IP 65

	COLOR	COM.	LUMEN	AUTONOMY	kg	KIT
1LE GST100L	White	–	110 lm	1 h	0,3	30

SA Multiled / Not Maintained Multiled

IP 44

	COLOR	COM.	LUMEN	AUTONOMY	kg	KIT
1LE GL60	White	–	80 lm	1 h	0,3	30
1LE GL100	White	–	100 lm	1 h	0,3	30
1LE GL150	White	–	170 lm	1 h	0,3	30
1LE GL200	White	–	200 lm	1 h	0,3	30
1LE GL300	White	–	300 lm	1 h	0,3	30
1LE GL3100	White	–	110 lm	3 h	0,4	30

Autotest

SE Multiled / Maintained Multiled

IP 44

	COLOR	COM.	LUMEN	AUTONOMY	kg	KIT
1LE GA60L	White	–	70 lm	1 h	0,3	30
1LE GA100L	White	–	130 lm	1 h	0,3	30
1LE GA150L	White	–	170 lm	1 h	0,3	30
1LE GA200L	White	–	200 lm	1 h	0,3	30
1LE GA300L	White	–	310 lm	1 h	0,4	30
1LE GA400L	White	–	465 lm	1 h	0,4	30
1LE GA3200L	White	–	195 lm	3 h	0,4	30

SA Multiled / Not Maintained Multiled

IP 44

	COLOR	COM.	LUMEN	AUTONOMY	kg	KIT
1LE GAL60	White	–	75 lm	1 h	0,3	20
1LE GAL150	White	–	155 lm	1 h	0,3	30
1LE GAL200	White	–	190 lm	1 h	0,3	30
1LE GAL300	White	–	310 lm	1 h	0,3	30

Accessories

1LE GDB	Blade diffuser compatible wit all lamps "Serie GS"
1LE GDBE	Blade diffuser for ceiling recessed installation, compatible with all lamps "Serie GS" equipped with G-ME accessory
1LE GDBP	Wall (surface) blade diffuser compatible with all lamps "Serie GS"
1LE GDBPE	Blade diffuser for ceiling recessed installation, compatible with all lamps "Serie GS" equipped with G-ME accessory
1LE GME	Recession frames for lamps "Serie GS", white color
1LE O-AT	M20 mounting tube adaper. It doesn't guarantee the degree of insulation IP67
1LE S-TE	Command for control up to 300 Standard or Autotest lamps
1LE GAMS	Watertight kit (IP65) consisting of gaskets, PG7 cable glands and gaskets for screws
1LE GMS	Waterproof case IP67 and IK10 for lamps "Serie GS"

Maximum viewing distance (according to EN 1838 for signals with internal lighting)

18 m

1LE NL	Sticker pictogram 150 x 90 mm, arrow left to be placed directly on "Serie GS" lamps
1LE NR	Sticker pictogram 150 x 90 mm, arrow right to be placed directly on "Serie GS" lamps
1LE NSD	Sticker pictogram 150 x 90 mm, arrow down to be placed directly on "Serie GS" lamps

Maximum viewing distance (according to EN 1838 for signals with internal lighting)

24 m

1LE PDA	Sticker pictogram 240 x 120 mm, arrow left/right. For 1LE GDB and 1LE GDBE
1LE PDSD	Sticker pictogram 240 x 120 mm, arrow down. For 1LE GDB and 1LE GDBE
1LE PDSU	Sticker pictogram 240 x 120 mm, arrow up. For 1LE GDB and 1LE GDBE

"ELIOS" series emergency lights

EN 60598-2-22 - 230V 50/60 Hz
PC - IP44 - IK04

- Installable on casing type 503
- Rapid assembly
- Protection degree IP44
- Autonomy 1 / 2 / 3 h depending from model
- Recharge time 10 / 24 h
- Dimensions (L x W x H) 322 x 52 x 120 mm

Standard

IP 44

SE Multiled / Not Maintained Multiled

	COLOR	COM.	LUMEN	AUTONOMY	kg	KIT
1LE D30L0	White	–	45 lm	1 h	0,5	20
1LE D60L0	White	–	60 lm	1 h	0,5	20
1LE D100L0	White	–	110 lm	1 h	0,5	20
1LE D120L0	White	–	120 lm	1 h	0,5	20
1LE D150L0	White	–	140 lm	1 h	0,5	20
1LE D200L0	White	–	200 lm	1 h	0,5	20
1LE D250L0	White	–	235 lm	1 h	0,5	20
1LE D300L0	White	–	330 lm	1 h	0,5	20
1LE D400L0	White	–	400 lm	1 h	0,6	20
1LE D500L0	White	–	480 lm	1 h	0,6	20
1LE D600L0	White	–	580 lm	1 h	0,7	20
1LE D700L0	White	–	675 lm	1 h	0,8	20
1LE D2200L0	White	–	200 lm	2 h	0,6	20
1LE D2400L0	White	–	410 lm	2 h	0,7	20
1LE D360L0	White	–	60 lm	3 h	0,5	20
1LE D3200L0	White	–	200 lm	3 h	0,6	20
1LE D3400L0	White	–	450 lm	3 h	0,6	20

Standard

SA LED / Maintained LED

IP 44

	COLOR	COM.	LUMEN	AUTONOMY	⚖ Kg	KIT
1LE DL1000	White	–	130 lm	1 h	0,5	20
1LE DL1500	White	–	170 lm	1 h	0,5	20
1LE DL2000	White	–	230 lm	1 h	0,5	20
1LE DL2500	White	–	235 lm	1 h	0,5	20
1LE DL3000	White	–	360 lm	1 h	0,5	20
1LE DL4000	White	–	400 lm	1 h	0,6	20
1LE DL5000	White	–	480 lm	1 h	0,7	20
1LE DL22000	White	–	270 lm	2 h	0,7	20
1LE DL31000	White	–	120 lm	3 h	0,7	20

SA Multiled / Maintained Multiled

IP 44

	COLOR	COM.	LUMEN	AUTONOMY	⚖ Kg	KIT
1LE DL60M	White	–	70 lm	1 h	0,5	20
1LE DL150M	White	–	145 lm	1 h	0,5	20
1LE DL200M	White	–	170 lm	1 h	0,5	20
1LE DL300M	White	–	325 lm	1 h	0,5	20

Autotest

SE Multiled / Not Maintained Multiled

IP 44

	COLOR	COM.	LUMEN	AUTONOMY	⚖ Kg	KIT
1LE DA100L0	White	–	135 lm	1 h	0,5	20
1LE DA200L0	White	–	195 lm	1 h	0,5	20
1LE DA300L0	White	–	290 lm	1 h	0,5	20
1LE DA400L0	White	–	390 lm	1 h	0,6	20
1LE DA500L0	White	–	490 lm	1 h	0,6	20
1LE DA600L0	White	–	580 lm	1 h	0,7	20
1LE DA2200L0	White	–	210 lm	2 h	0,5	20
1LE DA3200L0	White	–	180 lm	3 h	0,6	20

Autotest

SA Multiled / Maintained Multiled

IP 44

	COLOR	COM.	LUMEN	AUTONOMY	⚖ Kg	KIT
1LE DAL100M	White	–	92 lm	1 h	0,5	20
1LE DAL200M	White	–	210 lm	1 h	0,5	20
1LE DAL300M	White	–	300 lm	1 h	0,5	20
1LE DAL2200M	White	–	200 lm	2 h	0,5	20
1LE DAL3100M	White	–	120 lm	3 h	0,5	20

DALI

Works with **Norma**LINK ⭕

DALI

SE Multiled / Not Maintained Multiled

IP 44

	COLOR	COM.	LUMEN	AUTONOMY	⚖ Kg	KIT
1LE DID100L	White	DALI	140 lm	1 h	0,5	20
1LE DID200L	White	DALI	190 lm	1 h	0,5	20
1LE DID300L	White	DALI	300 lm	1 h	0,5	20
1LE DID400L	White	DALI	410 lm	1 h	0,6	20
1LE DID500L	White	DALI	500 lm	1 h	0,6	20
1LE DID2200L	White	DALI	200 lm	2 h	0,5	20
1LE DID3200L	White	DALI	200 lm	3 h	0,6	20

SA Multiled / Maintained Multiled

IP 44

	COLOR	COM.	LUMEN	AUTONOMY	⚖ Kg	KIT
1LE DIDL100M	White	–	92 lm	1 h	0,5	20
1LE DIDL200M	White	–	210 lm	1 h	0,5	20
1LE DIDL300M	White	–	300 lm	1 h	0,5	20
1LE DIDL2200M	White	–	215 lm	2 h	0,5	20
1LE DIDL3100M	White	–	120 lm	3 h	0,5	20

Accessories

1LE DAT	Wire adaptors (external tube)
1LE DMS	Waterproof box IP-66, IK -10
1LE DMDB	IP65 box for blade diffuser, IK-07
1LE USBL	Bracket for ceiling recessed
1LE UAV	Protection cage
1LE DKS	Hanging kit. 300 mm
1LE STE	Command for control up to 300 Standard or Autotest lamp
1LE DDB	Blade diffuser 332x132 mm.
1LE DMEL	Ceiling recession frame for ELIOS emergency lights
1LE DMEP	Kit including wall recessed casing for wall recessed installation of Elios lamp
1LE DDBEL	Blade diffuser for recessed installation in false ceiling

Maximum viewing distance (according to EN 1838 for signals with internal lighting)

18 m

1LE NL	Sticker pictogram 150 x 90 mm, arrow left for DMDB and DDB
1LE NR	Sticker pictogram 150 x 90 mm, arrow right for DMDB and DDB
1LE NSD	Sticker pictogram 150 x 90 mm, arrow down for DMDB and DDB
1LE NSU	Sticker pictogram 150 x 90 mm, arrow up for DMDB and DDB

Maximum viewing distance (according to EN 1838 for signals with internal lighting)

22 m

1LE LNL	Sticker pictogram 230 x 110 mm, arrow left for DMDB and on lamp diffuser
1LE LNR	Sticker pictogram 230 x 110 mm, arrow right for DMDB and on lamp diffuser
1LE LNSD	Sticker pictogram 230 x 110 mm, arrow down for DMDB and on lamp diffuser
1LE LNSU	Sticker pictogram 230 x 110 mm, arrow up for DMDB and on lamp diffuser

Maximum viewing distance (according to EN 1838 for signals with internal lighting)

24 m

1LE PDUA	Non-sticker pictogram 230 x 110 mm, arrow left/right for DMDB and DDBEL
1LE PDUSD	Non-sticker pictogram 230 x 110 mm, arrow down for DMDB and DDBEL
1LE PDUSU	Non-sticker pictogram 230 x 110 mm, arrow up for DMDB and DDBEL

"InvisibiLED" series emergency lights

EN 60598-2-22 - 230V 50/60 Hz
PC - IP40 - IK04

- Rapid assembly
- Protection degree IP40
- Autonomy 1 / 3 h depending from model
- Recharge time 24 h
- Dimensions (Ø x W) 50 x 33 mm

Standard

SE / Not Maintained

IP 40

	OPTICS	COM.	LUMEN	AUTONOMY	Kg	KIT
1LE VSE	Area	–	205 lm	1 h	0,2	20
1LE VVE	Corridor	–	205 lm	1 h	0,3	20
1LE VSEH	Area	–	410 lm	1 h	0,5	20
1LE VVEH	Corridor	–	415 lm	1 h	0,5	20
1LE VSE3	Area	–	205 lm	3 h	0,4	20
1LE VVE3	Corridor	–	205 lm	3 h	0,4	20

SA / Maintained

IP 40

	OPTICS	COM.	LUMEN	AUTONOMY	Kg	KIT
1LE VS	Area	–	210 lm	1 h	0,5	20
1LE VV	Corridor	–	220 lm	1 h	0,6	20
1LE VS3	Area	–	210 lm	3 h	0,5	20
1LE VV3	Corridor	–	220 lm	3 h	0,5	20

Autotest

SE / Not Maintained

	OPTICS	COM.	LUMEN	AUTONOMY		KIT
1LE VSEA	Area	–	195 lm	1 h	0,2	20
1LE VVEA	Corridor	–	195 lm	1 h	0,3	20
1LE VSEAH	Area	–	410 lm	1 h	0,5	20
1LE VVEAH	Corridor	–	415 lm	1 h	0,5	20

SE+SA / Maintained+Not Maintained

	OPTICS	COM.	LUMEN	AUTONOMY		KIT
1LE VSA	Area	–	210 lm	1 h	0,5	20
1LE VVA	Corridor	–	220 lm	1 h	0,6	20
1LE VSA3	Area	–	210 lm	3 h	0,5	20
1LE VVA3	Corridor	–	220 lm	3 h	0,5	20

"USCITA SICURA" series emergency lights

EN 1838 - 230V 50/60 Hz
PC - IP20 - IK04

- Installable on casing type 503
- Rapid assembly
- Include: 3 pictograms, wall mount kit, perpendicular wall kit
- Protection degree IP20
- Recharge time 24 h
- Dimensions (L x W x H) 357 x 34 x 225 mm

Standard

SA / Maintained

	COLOR	COM.	AUTONOMY	
1LE SG0	White	-	1 h	0,9
1LE SG30	White	-	3 h	0,9

Autotest

SA / Maintained

	COLOR	COM.	AUTONOMY	
1LE SGA0	White	-	1 h	0,9
1LE SGA30	White	-	3 h	0,9

DALI

Works with **Norma**LINK

SA / Maintained

	COLOR	COM.	AUTONOMY	
1LE SGIDK	White	DALI	1 h	0,9
1LE SGID3K	White	DALI	3 h	0,9

Electrified track

SA / Maintained

	COLOR	COM.	LUMEN	AUTONOMY		KIT
1LE SG-KD	White	-	100 lm	1 h	0,8	8

Accessories

Maximum viewing distance (according to EN 1838 for signals with internal lighting)

24 m

1LE SGNL	Sticker pictogram 300 x 120 mm, arrow left
1LE SGNR	Sticker pictogram 300 x 120 mm, arrow right
1LE SGNSD	Sticker pictogram 300 x 120 mm, arrow down
1LE SGNSU	Sticker pictogram 300 x 120 mm, arrow up

RETURN OF GOODS - General terms and sales conditions
RESERVED TO PERRY CUSTOMERS

A – WARRANTY RETURNS

Warranty returns will include all products that are considered to be out of order and sent DDP (Delivery Duty Paid) to our headquarter in Veniano (CO) - Italy - via Milanese 11, within the period of 24 months from the manufacturing date specified in each individual product. As far as the aforesaid products are concerned, they will be replaced with brand new products, except for the items whose sales price, net of discount, is higher than 52.00 €. For technical reasons, all Hygiene Devices are excluded, as a laboratory check is necessary for them before the full acceptance of the WARRANTY, with subsequent repairing. It is understood that in case of products whose sales price net of discount is higher than 52.00 €, the necessary repairs will be carried out, and then the products will be resent to the sender. In case of Warranty products, no charge will be issued, except in case the product is damaged and/or tampered with due to installation negligence. In this case, they will be considered as non-warranty returns.

B – NON-WARRANTY RETURNS

Non-warranty returns will include all products that are sent DDP (Delivery Duty Paid) to our headquarter in Veniano (CO) - Italy after the period of 24 months, and within 5 years from the manufacturing date specified in each individual product. As far as all non-warranty products are concerned, we will replace the products with a new product and/or with an item that was recovered as new product, and we will charge 50% of the product cost according to the prices of the pricelist in force. It is understood that in case of products whose sales price net of discount is higher than 52.00 €, and for technical reasons, all Hygiene Devices will be subject to the necessary repairs, and then will be resent to the sender. Note. All items not included in the catalogue any more, but within 5 years from the above-mentioned date in each individual product, will be repaired or replaced with equivalent products, and then resent to the sender at the aforesaid conditions.

C – PRODUCTS RETURNED LATER THAN 5 YEARS

The products that are returned later than 5 years from the production date labelled on the product will be resent to the sender without being subject to any intervention.

GENERAL TERMS AND SALES CONDITIONS

1 – ACCEPTANCE OF THE CONTRACT

Each order is accepted according to the following sales conditions and general terms, unless otherwise agreed, to be confirmed in writing by Perry Electric.

2 - WI-FI PRODUCTS

Perry Electric shall not, under any circumstances, be liable if the products fail to operate due to the interruption of the internet network or unavailability of these resources: Cloud, Server, Portal.

2.1 Internet access costs are charged to users according to the rates of their mobile phone provider.

3 – TERMS OF DELIVERY

Orders are accepted with a delivery date within 45 days, unless otherwise agreed, to be confirmed in writing by Perry Electric.

4 – PRICES

Prices are without VAT.

5 – RISKS

The goods always travel at the risk of the purchaser who, in its own interest, must check the quantity and the conditions of the goods before the collection and eventually express proper reserves to the transporting company.

6 – TRANSPORT

Transport is, if not specifically indicated, at the customers' charge.

7 – SPECIAL VOLTAGE

For orders with supply voltages different from those indicated in the catalogue, there will be at least a 15% increase on the standard price.

8 – NON STANDARD QUANTITIES

For quantities different from the standard packing, there will be a 5% increase on the standard price.

9 – CLAIMS

Claims have to be made in writing to Perry Electric in Veniano (CO) - Italy - via Milanese 11, within 8 days from goods receipt. Perry reserves the right or not to accept the return of eventual faulty devices that have to be sent DDP (Delivery Duty Paid) to our headquarter in Veniano (CO) - Italy - via Milanese 11.

10 – PAYMENT TERMS

Payments must be done for the fixed amount at the fixed dates. In case of delay in payment, even partial, beyond the terms agreed at the time of order, Perry Electric is entitled to apply an interest rate equivalent to the banks' current interest rate increased by 4%.

11 - COMPETENT COURT

The Court of Milan – Italy, will be competent for all disputes.

12 - VERIFICATION OF LOCAL STANDARDS

The importer/distributor is obliged to verify the local standards and regulations of the country of sale/installation of the product.

Technical data and information mentioned in this documentation are subject to modifications. Perry Electric reserves the right to modify the mentioned specifications without prior notice, at any time, according to the evolution of materials and technologies. The products must be installed in compliance with the general standards in force, by qualified electricians. Perry Electric declines any liability in connection with the use of products that provide for special environmental and/or installation standards, whose compliance falls under the competence of the installer.

CATALOGUE

ELECTRIC
PERRY