Digital chronothermostats

MITHOS GSM RF

Wall-mounting weekly chronothermostat with GSM interface and possibility of radiofrequency control.
The integrated GSM module allows the management of the chronothermostat remotely through your mobile phone (via SMS or specifically developed APP).
The radiofrequency module allows the control of the system (radiators, boiler, air conditioner, zone valves) via a radiofrequency signal, particularly useful solution in the case in which the wiring is difficult. As an alternative, the connection to the boiler, to the air conditioner or to the zone valves can take place by wire, thanks to the output relay. The radiofrequency interface also allows you to control, independently of the temperature, up to 7 auxiliary loads.
The digital input, moreover, allows the connection of an external device: in this way it's possible to monitor alarm situation, promptly signalled through the sending of an sms to some configurable utilities.

1 Plastic base for wall-mounting or fastening on 503 type box (or similar)
2 Wide display to view operating parameters
3 Keypad hidden behind the front panel for the programming
4 Slot for the sim card insertion
5 Digital input configurable for the connection of an external temperature probe (X.Temp) or of an auxiliary device (for alarms)
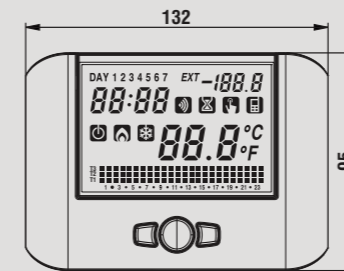
FUNCTION WHEN REMOTE
Sending an sms to...
... set the operating mode (automatic, manual or off)
... set the regulation temperatures
... to request the measured temperature or the system status
... turn on / off the auxiliary electrical loads connected via radiofrequency
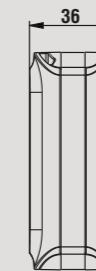**Receipt of an sms if...**
... an external general alarm via digital input (for example boiler block alarm)
... a power failure/restore alarm
... an overcoming of minimum/maximum temperature threshold
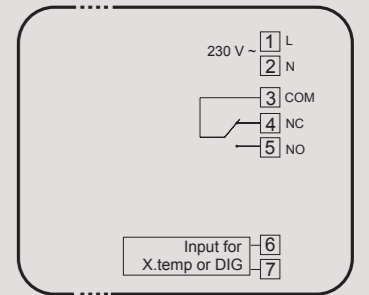
DIMENSIONS (mm)

Front view

132
95

Side view

36

CONNECTION DIAGRAM

Diagram

230 V ~
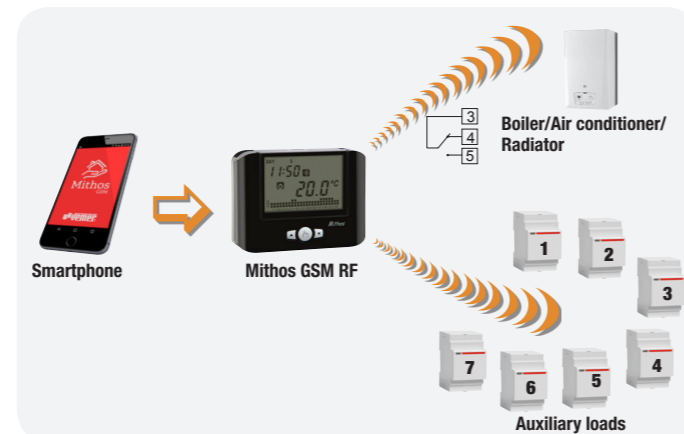1 L
2 N
3 COM
4 NC
5 NO

Input for X.temp or DIG
6
7

CLIMATE CONTROL

GSM RADIOFREQUENCY WALL-MOUNTING WEEKLY CHRONOTHERMOSTATS

- 3 operating modes:
  - Automatic (3 temperature values)
  - Manual (with manual temperature)
  - Off (with antifreeze temperature)
- Summer/winter function
- Temperature regulation of ON-OFF or proportional type
- Connection to the system via relay or radiofrequency (via remote actuator)
- Possibility to control via radiofrequency up to 7 auxiliary loads trough actuators
- Connectable remote actuators: RX1-8A, RX1-8A P, RX4-8A, RX7-5A, ThermoPro RF (for radiators)
- Automatic switch between CET/DST
- Automatic synchronization of the time even in the case of prolonged blackout
- Key lock for installation in public places

Smartphone
Mithos GSM RF
Boiler/Air conditioner/Radiator
3
4
5
Auxiliary loads
1 2 3 7 6 5 4

Code	Model	Description	Colour	Power supply
VE756900	Mithos GSM RF Bianco	GSM radiofrequency wall-mounting chronothermostat	White	230 V~
VE757000	Mithos GSM RF Nero	GSM radiofrequency wall-mounting chronothermostat	Black	230 V~
VE757100	Set Mithos GSM RF Bianco	Configured set composed by Mithos GSM RF Bianco and RX.16A actuator	White	230 V~
VE757200	Set Mithos GSM RF Nero	Configured set composed by Mithos GSM RF Nero and RX.16A actuator	Black	230 V~
VE323200	FR. Mithos	Silver painted front panel for Mithos	Silver	

TECHNICAL INFORMATION

GENERAL CHARACTERISTICS

Power supply	V AC	230 (-15% ÷ +10%)
Charge reserve	h	10
Fastened		wall / wall box 503
Relay capacity 250 V AC output	A	8
Programming		weekly
Summer/winter operation		yes
Temperature settings		3 + antifreeze + manual
Temperature regulation range:		
Automatic °C		+2 ÷ +50
Manual °C		+2 ÷ +50
Antifreeze °C		OFF, +1 ÷ +50
Internal probe temperature measurement	°C	0 ÷ +50
External probe temperature measurement	°C	-40 ÷ +60
Measure precision	°C	0.5
Temperature resolution	°C	0.1

Programming resolution	h	1
Gap between two temperature measurements	s	20
Activation delay	min	15, 30 o 45
Regulation type		ON-OFF or proportional
Adjustable differential (in ON-OFF)	°C	0.1 ÷ 1
Band (in Proportional)	°C	0.5 ÷ 5
Period (in Proportional)	min	10, 20, 30
Transmission frequency	MHz	433.92
GSM quad band module	MHz	850 - 900 - 1800 - 1900
Degree of protection	IP	XXD
Operating temperature	°C	0 ÷ +50
Storage temperature	°C	-10 ÷ +65
Relative humidity	HR	20 ÷ 90%
		non condensing

REFERENCE STANDARDS
Compliance with Community Directives: 2014/53/EU (RED)
is declared in reference to the following standards: • Safety: EN 60730-2-7 / EN 60730-2-9 • E.M.C.: EN 301489-1 / EN 301489-7

System control

RF solution for radiators

Control of the radiators by radiofrequency connection with Thermo-Pro RF valves

RF solution for boilers/air conditioners

Control of the boiler or of the air conditioner by radiofrequency connection with the remote actuators of the RX series

Solution with relay for boilers/air conditioners

Control of the boiler or the air conditioner by wire connection through the relay on board

Mithos GSM RF remote control

The configurable input

- For the connection of the temperature probe X.Temp that can be used for both the viewing that for the regulation

- For the connection of an external device for the monitoring of alarm situations (for example the block of the boiler)

ALLARME

The alarm signals

SMS

Constant monitoring of critical situations and sending of a message in case of mains absence, temperature detected out of range or configurable alarm input

Auxiliary loads control

Control of auxiliary loads through radio-frequency connection with the remote actuators to control up to 7 different utilities, such as: lights, irrigation systems, shutters, gates, safety gas valves.

Compatible remote actuators

RX.16A	RX1-8A	RX4-8A
ThermoPro RF	RX1-8A P	RX7-5A

VEMER SPA