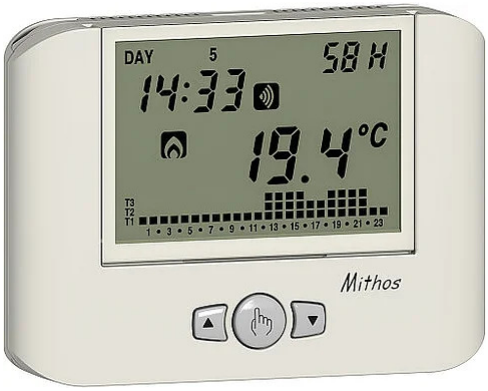
Mithos H RF Bianco

VE489100

Smart thermostats / Climate Control



Battery-operated wall-mounted electronic smart thermostat with humidistat function, RF module, and weekly programming. The device is designed to regulate room temperature in both heating mode (winter) and air conditioning mode (summer) and humidity in both dehumidifier and humidifier functions. The boiler (or air conditioner) and the dehumidifier (or humidifier) are activated independently by two remote actuators, controlled by Mithos RF via radio frequency signals. This solution ensures high installation flexibility, especially in existing systems, since no wiring or masonry work is required.

General features

- Plastic base for wall-mounted installation or for covering a 3-module flush-mounted box
- Display showing measured temperature and set programming
- Hidden keypad under the flap
- Integrated RF module for sending control signals to remote actuators
- Simultaneous display of measured temperature and humidity
- Automatic weekly programming with 3 temperature levels (T1, T2, T3)
- Temperature control: on/off (with adjustable differential), proportional, or tP (pulse-width modulation for coupling with ThermoPro RF thermostatic valves)
- Anti-freeze temperature to prevent system freezing when the device is in OFF state
- Timing function: Maintains the current operating mode (automatic, manual, or off) for a set period of time, after which the device automatically switches to the specified mode.
- Delay function (configurable for each hour): adjusts the temperature for the first 15, 30, or 45 minutes of the current hour according to the temperature level set for the previous hour
- Automatic changeover between standard time and daylight saving time
- Keypad lock function with password to prevent modifications by unauthorised people
- Compatible with all Vemer RF remote actuators
- Classification according to point 6 of European Commission Communication 2014/C 207/02: class IV

Technical specifications

Power supply	
Power supply	1 battery (AA) 1.5 V Alkalina NOT rechargeable
Power reserve	1 minute
Temperature settings	
Settable temperatures	3 + antifreeze + manual
Temperature setting range Manual	2 ÷ 50 °C
Temperature setting range Automatic	2 ÷ 50 °C
Temperature setting range Antifreeze (Off)	OFF, 1 ÷ 10 °C
Humidity settings	
Humidity setting range	OFF, 30% ÷ 90% RH

Vemer S.p.A. declines all responsibility for the use of the products for purposes other than those for which they are intended, as indicated in the technical documentation. Vemer S.p.A. reserves the right to make, without prior notice, such changes as may, in its sole discretion, improve the technical and functional characteristics of the products and the related production logic. The technical characteristics and images of the products indicated are given for information only and are not binding in any way, since they may be modified without prior notice.

Revision date: 2026-02-02

Parameter settings	
Type of adjustment	ON-OFF or proportional
Differential/Hysteresis	5% ÷ 20% HR 0.1 ÷ 1 °C
Modes of operation	Summer Winter
Programming	Weekly
Programming resolution	1 hour
Measure	
Temperature measuring range	0 ÷ 50 °C
Temperature display resolution	0.1 °C
Humidity display resolution	1% RH
Temperature measurement accuracy	0.5 °C
Humidity measurement accuracy	± 3% RH
Functions	
Measured humidity value displaying	✓
Humidistat function	✓
Timing function	✓
Automatic daylight saving/standard time changeover	✓
Keypad lock function	✓
Delay function	✓
Functional characteristics	
Time between 2 commutations	1 minute
Connectivity	
Transmission frequency	433,92 MHz
Maximum transmitted radio frequency power	-10 dBm
Operating conditions	
Operating temperature range	0 ÷ 50 °C
Relative humidity	20% ÷ 90% non-condensing RH
Storage temperature range	-25 ÷ 70 °C
Approvals and certifications	
Classification according to point 6 of Communication 2014/C 207/02 of the European Commission:	Class IV
Viewing	
Display	LCD
Mechanical features	
Protection degree	IP40

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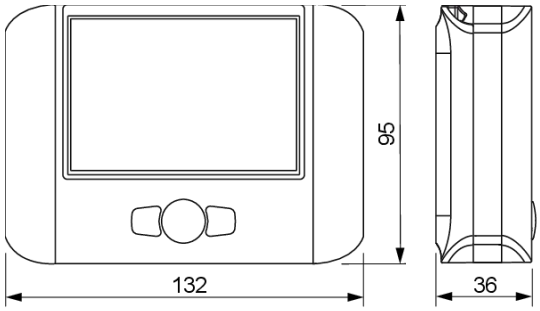
VE489100

Physical features	
Color	White
Device command	Keys
Overall dimensions	
Height (A)	95 mm
Width (B)	132 mm
Depth (C)	36 mm

Dimensions

Front View

Side View



Product variants

Mithos H RF Nero

VE490900

Battery-operated weekly wall-mounted smart thermostat with humidistat function, flap and physical keys, RF module. Black colour

Accessories compatible with the product

Fr.Mithos Argento

VE323200

Silver-coloured cover frame for Mithos

Base.RF

VE772900

Tabletop stand for radio-frequency thermostats and programmable thermostats

RX1-8A

VE015400

230 Vac DIN-rail remote actuator for radio frequency devices with 1 relay 8A/250V

RX1-8A P

VE471900

230 Vac wall-mounted remote actuator for radio frequency devices with 1 relay 8A/250V

RX7-5A

VE443800

230 Vac wall-mounted remote actuator for radio frequency devices with 6 relays 8A/250V

RX.16A

VE736500

Flush-mounted 230 Vac remote actuator for radio frequency devices with 1 relay 16A/250V

ThermoPro RF

VE741500

Battery-powered weekly smart thermostat for radiators. Radio-frequency module. Color: white.

RX4-8A

VN943700

230 Vac wall-mounted remote actuator for radio frequency devices with 4 relays 8A/250V

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Reference standards

Compliance with Community Directives:

• 2014/53/UE (RED) • 2011/65/UE e 2015/863/UE (ROHS)

is declared with reference to the following Standards:

• EN IEC 60730-2-7 • EN IEC 60730-2-9 • EN IEC 60730-2-13 • ETSI EN 300 220-1 • ETSI EN 300 220-2 • ETSI EN 301 489-1 • ETSI EN 301 489-3

• EN IEC 63000

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