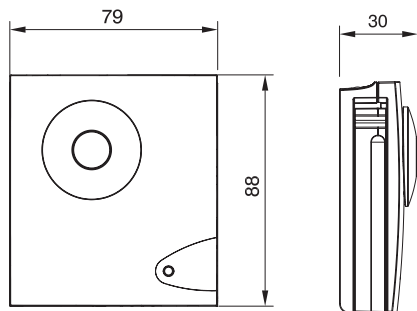


Vemer S.p.A.

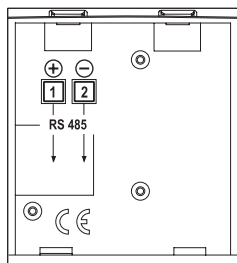
I - 32032 Feltre (BL) • Via Camp Lonc, 16
 Tel +39 0439 80638 • Fax +39 0439 80619
 e-mail: info@vemer.it - web site: www.vemer.it

Mod. **Athena.temp**

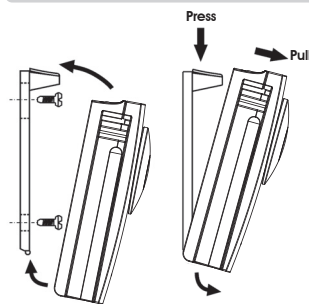
Dimensions



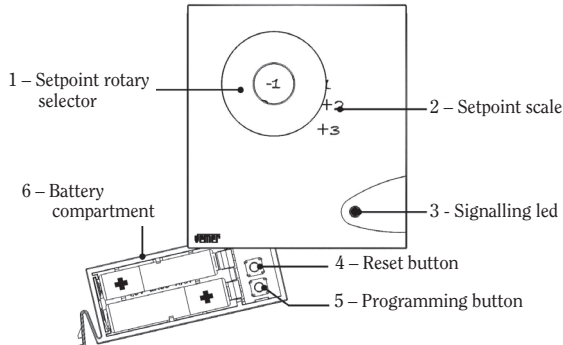
Wiring diagram



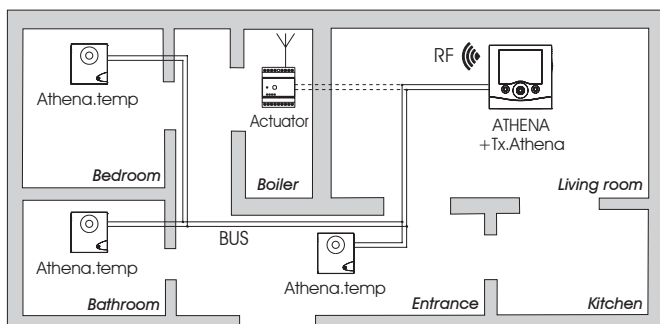
Installation



Description



Network example



Control of 4 zones by the **Athena** programmable thermostat

- Living room/kitchen Probe: built into **Athena** programmable thermostat
- Bedroom Probe: remote, connection to **Athena** via bus 485
- Bathroom probe: remote, connection to **Athena** via bus 485
- Entrance probe: remote, connection to **Athena** via bus 485

The air-conditioning equipment is controlled by **Athena** programmable thermostat by means of a remote actuator (**RX4-8A**) via RF and/or 485 bus.

User Manual

ATHENA.TEMP remote probe

Read all instructions carefully

- The **Athena.temp** device is a remote probe to measure room temperature and is designed to be connected to the **Athena** programmable thermostat.

SAFETY INSTRUCTIONS

During product installation and operation, it is necessary to observe the following instructions:

- 1) *The device must be installed by a qualified person*
- 2) *Disconnect power supply while installing the unit*
- 3) *Do not power or connect the product if any part of it is damaged*
- 4) *Connect the product considering the diagrams described in the following manual and on the instrument*

| Code | Model | Description |
|----------|-------------|--------------|
| VN942900 | ATHENA.TEMP | Remote probe |

TECHNICAL SPECIFICATIONS

- Power supply: 2x1,5V (AAA) alkaline batteries
- Battery Autonomy: 12 months approx.
- Battery level control with "dead battery" sign
- Serial port for **Athena** network connection (RS-485)
- Measured temperature resolution: 0,1°C
- Accuracy: $\pm 0,5^{\circ}\text{C}$
- Measured temperature range: $0^{\circ}\text{C} \div 40^{\circ}\text{C}$
- Offset adjustment range: $\pm 3^{\circ}\text{C}$
- Operating Temperature: $0^{\circ}\text{C} \div 50^{\circ}\text{C}$
- Storage Temperature: $-10^{\circ}\text{C} \div 65^{\circ}\text{C}$
- Wall-mounting installation
- Protection degree: IP40

OPERATION

SWITCH-ON RESET AND BATTERY REPLACEMENT

- On placing the batteries (or after reset) the signalling LED will give out 2 half-second long flashes (switch-on sequence).
- When the batteries on the remote probe are low, the signalling LED will give out 2 quick flashes every 2 seconds. The "low battery" signal is also transmitted to the **Athena** device (cfr. **Athena** instructions for further details on readings and signals). Low batteries must absolutely be replaced, because communication is not reliable in this condition.
- As soon as new batteries are placed, the remote probe will resume operation by running the switch-on sequence. If not, press the reset button.

Warning: incorrect battery positioning may damage the device and run down the batteries.

CONFIGURATION

- Communication with the **Athena** programmable thermostat via bus (RS-485) can only take place after probe configuration.

Probe configuration

- With the device ON (the switch-on sequence must have completed), hold down the programming key for at least 3 seconds.
- The signalling LED will start to flash and will keep on flashing until the probe receives a configuration string (for string transmission method, cfr. **Athena** instructions).
- On receiving the string, the probe will be successfully configured: the signalling LED will go off and the probe will resume normal operation.
- In case of various **Athena.temp** probes on the same network, repeat the configuration procedure for each individual probe.

OPERATION AND TEMPERATURE CONTROL

- During normal operation, the probe transmits the temperature value and the rotary selector position whenever there is a data request from the **Athena** device the probe was configured with. When data are transmitted the signalling LED flashes briefly.
- Position the rotary selector as desired: to control the temperature according to the setpoint selected on **Athena**, rotate the selector until the reading 0 appears in the slot. In all other cases temperature control is determined by a setpoint modified following a value that matches the selected value. For instance: if the setpoint on **Athena** is $+20,0^{\circ}\text{C}$ and **Athena.temp**'s selector is in position $+1,0^{\circ}\text{C}$, the modified setpoint value determining temperature control will be $+21,0^{\circ}\text{C}$.

REFERENCE STANDARDS

Conformity to the EU directives is declared with reference to the following harmonised standards:

Safety: EN 60730-2-9

Electromagnetic compatibility: EN 61000-6-1, EN 61000-6-3