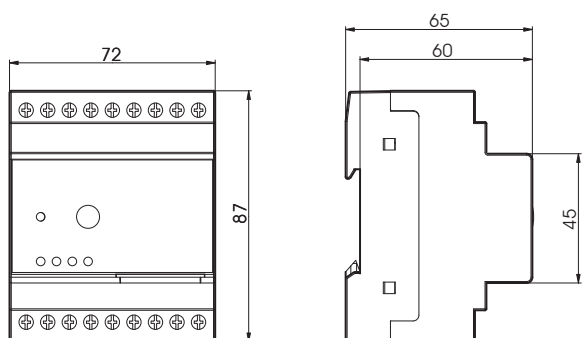
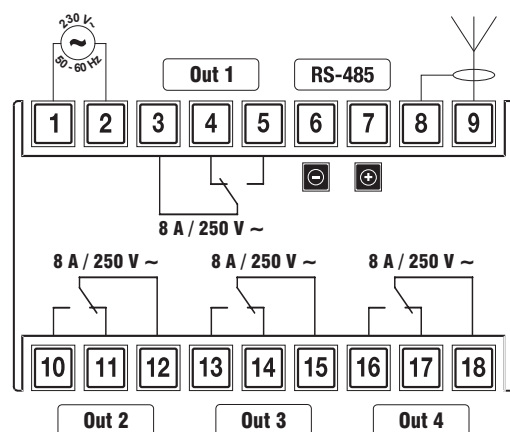
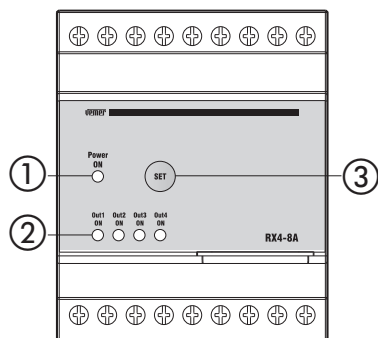




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Mod. **RX4-8A****Dimensions (A)****Connection diagram (B)****Description (C)**

## User Manual

### REMOTE ACTUATOR MODEL RX4-8A

Read all the instructions carefully

- The remote actuator **RX4-8A** is an independently mounted automatic control for heating and air conditioning applications, designed for communications with **Athena** programmable thermostat (radio and bus) and **Klio** digital thermostat (radio).
- It provides a type 1B actions and it is designed for household and similar use with overvoltage category III and normal pollution level (EN 60730-1).

**SAFETY WARNINGS**

*During product installation and operation, the following safety instructions should be respected:*

- 1) *The instrument should be installed by qualified personnel*
- 2) *Before touching the terminals, make sure there is no power supply to the electric wires*
- 3) *Do not power or connect the instrument if any part of it is damaged*
- 4) *Follow the connection diagrams described on this manual and over the instrument*
- 5) *The electrical system of the building in which the instrument is to be installed should have a switch and a protective device against over-currents.*
- 6) *The instrument must be installed and activated in compliance with current electric systems standards*
- 7) *After installation, inaccessibility to the connection terminals without appropriate tools must be granted.*

Code	Model	Description
VN943700	RX4-8A	Remote actuator

**TECHNICAL SPECIFICATIONS**

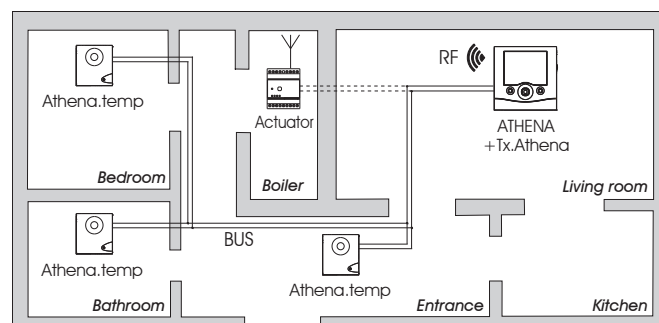
- Power supply: 230 VAC (-15%/+10%) 50/60 Hz
- Outputs:
  - 4 relays 1 change over contact: 8A/250 V AC (resistive load)
  - serial port for **Athena** network connection (RS-485)
  - external antenna (on request)
- Operating temperature: 0°C ÷ 50°C
- Storage temperature: -10°C ÷ 65°C
- Enclosure: 2 module DIN, RAL 7035 gray
- Protection degree: IP20 (IP40 when correctly installed in an electrical panel)

**OPERATION****DESCRIPTION AND CONTROLS**

- ① Green LED operation function
- ② Red LEDs relay function
- ③ Reset and programming SET BUTTON

**FUNCTION**

- In starting phase, the red LEDs flashes twice for some seconds (switching on- sequence).
- At the end of the switching on-sequence, the green LED signal normal device operation and the red LEDs relay status (light on = relay ON).
- The remote control (relay commutation ON/OFF) request from **Klio** digital thermostat and **Athena** programmable thermostat take place only after channel setting-up.

**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.

- The radio connection break down for more than 15 minutes between the transmitter and the receiver disconnects the relay/relays and the red LED/LEDs lightened. Restore of operations is automatic.

**Channel setting-up**

- During normal operation, press the SET key-button for almost three seconds to enter in modality-configuration. Green LED switch-off, red LED flash. Press the SET key-button to select the output relay.
  - The instrument keep on modality-configuration for a maximum of 60 seconds within the actuator should receive a string configuration (see **Athena** and/or **Klio** instructions for string start-up modality).
  - On receipt of string, channel is setted-up and the actuator is on standard functioning.
  - For re-setting up, repeating the procedure.
- To reset channel setting-up, plug into configuration modality with SET button, then push the same one for three seconds and wait for green led switching on. A new channel setting up cancels the previous configuration.

**SERIAL OUTPUT**

RX4-8A features an insulated serial output RS 485 for communication. It is possible to connect up to 64 instruments up to a maximum distance of 40 m.

**Note: It is possible to connect a remote actuator with different programmable thermostats Athena. In this case it is necessary to configure different zones for each Athena. Example: 2 Athena are connected with a remote actuator: if Z1 is selected in the first Athena, then Z2, Z3 or Z4 must be selected in the second Athena.**

**STANDARDS REFERENCE**

Conformity to the EU directives:

2006/95/EC (Low Voltage)

2004/108/CE (Electromagnetic Compatibility)

is declared with reference to the following harmonized standard:

- Safety: **EN 60730-1**
- Electromagnetic compatibility: **EN 301 489-1/3** and **EN 300 220-3**