

# XM9

## One DIN module for temperature acquisition from probes Pt100/500/1000

### Measurement accuracy

±0.5°C tolerance guaranteed on output pulses measurement within - 40°C and 150°C.

The highest precision is obtained through 4 wire shielded cable resistance temperature detectors.

### Applications

When added to X-Meter/RWU, XM8 allows acquiring precise and reliable room and production Temperature for both production or environmental monitoring.



XM9 collects temperature data using PT100, PT500 or PT1000 probes and converts the values in pulsed output with 0 to 5Hz frequency. The minimum value on the measurement scale will imply a 0Hz (0 pulses per second) output pulse frequency while the full scale will mean a 5 Hz (5 pulses per second) output pulse frequency. The probes that can be used may be 2, 3 or 4 wires, even with shielded cable. There also is a 2.5 KV galvanic isolation between the inputs and the other connections.

Power supply	12 Vdc
Consumption	0.85 W / 71 mA
Precision	0.5 % del F.S.
Measurement range	-40 +150 °C
Galvanic Ins. inputs/output imp.	2.5 KV
Screw terminal board Max cable dim.	1.5 sq.mm.
No. Configurations	3
Type of pulsed output	0/5 Hz
Weight	60 gr
Width	17.5 mm
Height	60 mm
Protection rating	IP20
Container type	1 Mod. DIN

*IMPORTANT: The range and type of measurement are defined during the order phase. Any subsequent variations will require recalibration at our laboratory.*

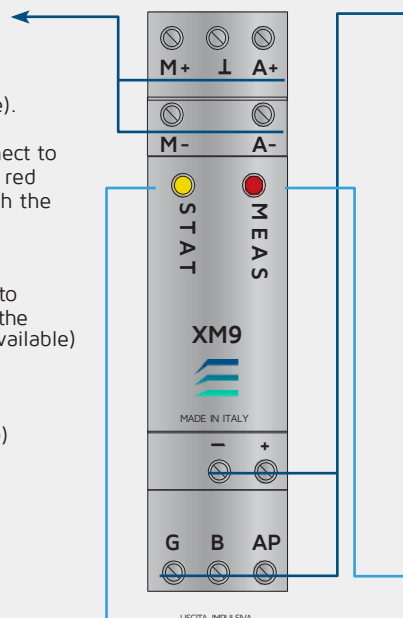
#### Notes for input connection

- A+** First power input PT, to connect to the red wire on the PT (or one of the red wires on the PT if 2 are available).
- M+** First PT measurement input, to connect to the second red wire on the PT (if 2 red wires are available) or to attach with the "A+" terminal (if only one red wire is available)
- A-** Second PT power input, to connect to the white wire on the PT (or one of the two white wires on the PT if 2 are available)
- M-** Second PT measurement input to connect to the second white wire on the PT (if 2 white wires are available) or to attach with terminal "A-" (if only one white wire is available)
- ⊥** Ground terminal for connecting the shielding.

#### Status

The yellow "STAT" light comes on with every impulse received from the analogic source.

When the yellow and red LEDs are lit, there is an anomaly.



#### Notes for connecting power supply and outputs

- +** Power supply 12 Vcc  
The X-Meter device can supply up to 2 modules (XM8-9-10) on terminals 29 (+) and 30 (-).
- AP** Pulsed output positive terminal
  - for X-Meter terminals from 21 to 28
  - for RWU terminals EA-ER-SE-G SG-W
- G** Pulsed output negative terminal\*
  - for X-Meter, terminal 30
  - for RWU terminals C1/2/3

#### Type of cable to use:

- single pole cable, max 1.5mm2
- distance max 500 meters

\* connected inside the terminal

#### Status

The red "MEAS" LED is steady when the input measurement exceeds the range. When the yellow and red LEDs are lit, there is an anomaly.