

XM11

Room temperature and humidity module



The XM11 module reads room temperature using an internal probe and converts the value in 0 to 5 Hz frequency pulsed output.

XM11 comes in a plastic container with two holes (D=4.75mm) for easy wall-mounting using screws. The device has a single, 5-pole connector that can be removed, with screw terminals for power supply and pulsed output.

Measurement accuracy

The temperature range that can be measured with XM11 is -10°C to +65°C with a guaranteed $\pm 0.8^\circ\text{C}$ tolerance on output pulses measurement (i.e. $\pm 0.3^\circ\text{C}$ at 25°C.). Relative humidity measurement, goes from 0% to 100% with $\pm 2\%$ tolerance on output pulses measurement in the 10-90% range.

Correct use conditions

To measure room temperature, it is advisable to install the device at 1.8 m, away from heat sources and use a cable with two power supply conductors with 0.5 mm² section and, those for pulse outputs no smaller than 0.22 mm². With this type of cable, the maximum length must not exceed 350 m.

XM11 module equipment and features

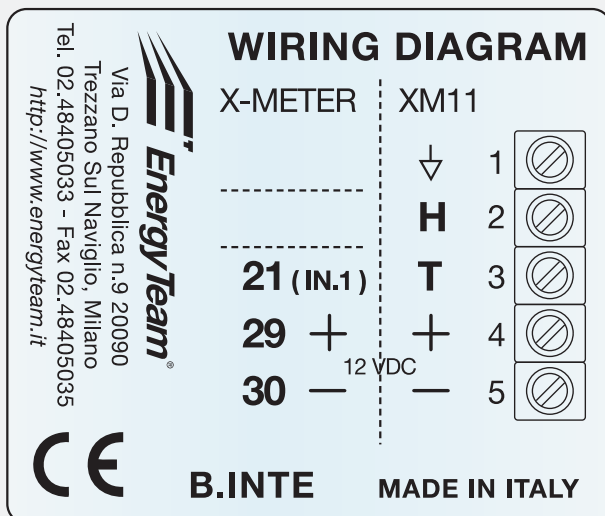
The module has two LEDs on the front panel:

- > The **RED LED** is located on the front panel and flashes with every output impulse. It remains steady when the input measurement (one of the measurements) exceeds the range given above.
- > The steady **GREEN LED** indicates that the device operation is in progress.

Applications

When added to X-Meter/RWU, XM11 allows acquiring room Temperature values in Offices, Data Centres, warehouses, shopping centres, etc.

Power supply	12 Vdc
Consumption	0,85 W / 71 mA
Temperature measurement range	-10+65 °C
Accuracy of the Temperature meas.	$\pm 0,3/\pm 0,8$ °C
Humidity measurement range	0% a 100%
Accuracy of the Humidity meas.	$\pm 2\%$
Screw terminal board Max cable dim.	0,5 mm ²
Type of pulsed output	0/5 Hz
Weight	50 gr
Width	64 mm
Height	76 mm
Depth	26 mm
Protection rating	IP20
Container type	plastic



Pulse

- ▽ Pulsed output negative terminal*
 - > for X-Meter, terminal 30
 - > for RWU terminals C1/2/3
- H Pulsed output positive terminal
 - > for X-Meter terminals from 21 to 28
 - > for RWU terminals EA-ER-SE-G SG-W not used
- T Pulsed output positive terminal
 - > for X-Meter terminals from 21 to 28
 - > for RWU terminals EA-ER-SE-G SG-W
- + Power supply 12 Vcc
 - The X-Meter device can supply up to 2 modules (XM8-9-10) on terminals 29 (+) and 30 (-).

* connected inside the terminal