



Mod. **TAI**

Indoor Temperature Sensor



Highlighted specs

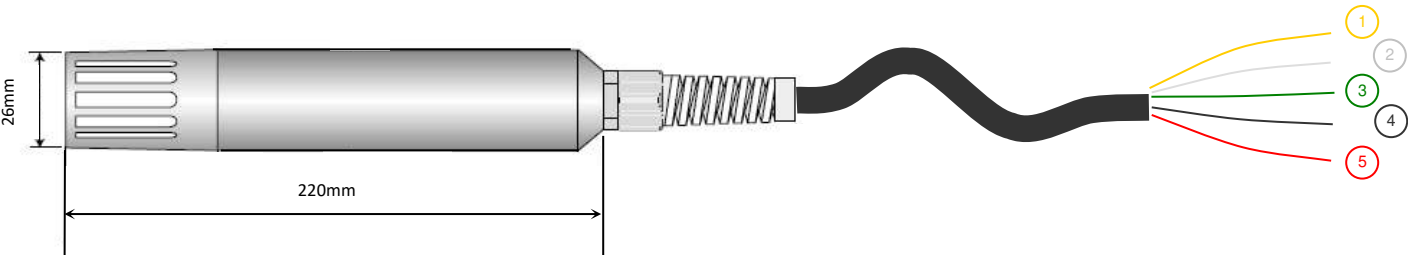
- Accurate and reliable temperature sensor
- Limited dimensions and weight (ø12mm)
- Measure with high precision RTD Pt100 1/3 DIN
- WMO standards compliant
- Perfect with wireless networks
- According to **CE** norms

Sensor made of plastic material for the measurement of indoor temperature. Its small size allows to use it minimizing the invasiveness. The RTD sensing element is a **1/3DIN Pt100**, and can be interfaced to a wireless transmission module, in this way it's possible to **create a network** consisting of several sensors, directly acknowledged by a Nesa datalogger or directly on internet. Available with electrical signal output in voltage (0 ÷ 1Vdc) or current 4÷20mA or ModBus.

Typical range	-40 ÷ +80°C (other ranges available)
Resolution	0.015°C
Accuracy	DIN 43760 1/3DIN (±0.1°C @ 0°C)
Response time	< 15s
Power supply and consumption	10÷30Vdc, typ.<0.1W
Type of transducer	Platinum resistance Pt100 (100Ω @ 0°C);
Signal output	1/3DIN resistance (100Ω @ 0°C); 0÷1 Vdc; 4÷20mA, RS485 Modbus RTU
Working conditions	-50 ÷ +80°C
Protection	Against inversion polarity and transient
Weight	<80g

Size and connections

Wire	TAI-N	TAI-B	TAI-C
1 - Yellow	Pin 1 Pt100		
2 - White	Pin 1 Pt100	I-Out +	T-RH RS485 A
3 - Green	Pin 2 Pt100		T-RH RS485 B
4 - Grey/Orange	Pin 2 Pt100		Gnd
5 - Red		Vdc:10÷28V	Vdc:10÷28V



Order Code

Sensor	Indoor Temperature Sensor	TAI			
Output	4÷20mA (MCS option) RS485 / Modbus (MCS option) Natural PT100 (on request)	B C N			
Accessories	CS05 – Cable 5m sensor-datalogger CS10 – Cable 10m sensor-datalogger CSxx – Cable xx* m length, sensor-datalogger – to be specified at order SSM - Wall bracket in anodized aluminium for sensors ø25mm, about 12cm away from the wall		05 10 xx		SSM

\*specify the length for no standard measures

example of order code

TAI

C

10

SSM