



Mod. UTAI

Indoor Thermogeometric Temperature and Humidity Sensor

Highlighted specs

- Accurate and reliable Indoor Air Humidity & Temperature Sensor
- Limited dimensions and weight
- Measure with high precision capacity and RTD Pt100
- According to CE norms

Sensor made of plastic material for the measurement of indoor temperature and humidity. Its small size allows to use it minimizing the invasiveness.

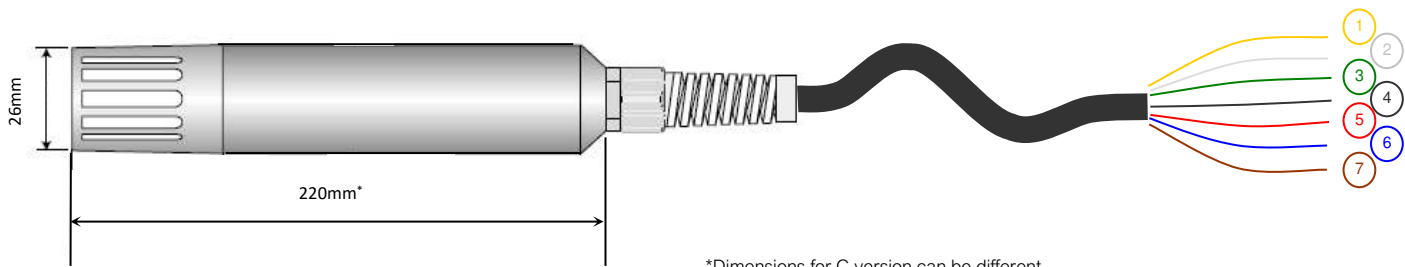
Temperature: RTD sensing element 1/3DIN Pt100, connection - four-wire.
Relative Humidity: Sensor for indoor air relative humidity measurement made of a thin film that changes the capacity in linear mode with the air humidity.

Electrical signal output in current or voltage (4 to 20mA or 0 ÷ 1Vdc) or RS485/ModBus.

Typical range	T: -40 ÷ +80°C	RH: 0 ÷ 100%Rh
Resolution	T: 0.015°C	RH: 0.1%
Accuracy	T: DIN 43760 1/3DIN (±0.1°C @ 0°C)	RH: ± 2% f.s.
Response time	T: < 60 s	RH: < 100s (10÷80%)
Type of transducer	T: 1/3DIN platinum resistance Pt100 (100Ω @ 0°C)	RH: Capacitive
Signal output	0÷1 Vdc (Rh +T); 4 ÷ 20mA (Rh + T); RS485 /ModBus	
Working conditions	-40 ÷ +80°C	
Power supply and consumption	10÷28Vdc, < 0.5W (UTAI-B)	
Weight	<100g	

Size and connections

Wire	UTAI-A	UTAI-B	UTAI-C
1 – Yellow			
2 – White	T Out V+	T Out I+	T-RH RS485 A
3 –Green	T Out V-		T-RH RS485 B
4 – Grey and Orange	Gnd		Gnd
5 –Red	Vdc:10÷28V	Vdc:10÷28V	Vdc:10÷28V
6 –Blue	RH% Out V+	RH% Out I+	
7 –Brown	RH% Out V-		



*Dimensions for C version can be different

Order Code

Sensor	Indoor Temperature and Humidity Sensor		UTAI		
Output	Temperature: 0÷2Vdc 4÷20mA RS485 / Modbus Natural (Pt100)	Humidity: 0÷1Vdc 4÷20mA RS485 / Modbus 0÷1Vdc	A 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 – Arm support for stylus sensors for wall mounting			05 10 xx	SSM

*specify the length for no standard measures

example of order code

UTAI

C

10

SSM