



Mod. **UTA/UTAV**

Thermohygrometric sensor with natural
(forced) ventilation

Highlighted specs

- Accurate and reliable Air Humidity & Temperature Sensor
- Measure with high precision capacity and RTD Pt100
- Compact and light design in aluminium for hot and cold climates
- WMO standards and EN 15518-3:2011 compliant
- Available with forced ventilation
- According to CE norms

Sensor manufactured according to standard WMO (World Meteorological Organization) and also available with forced ventilation (code. UTAV).

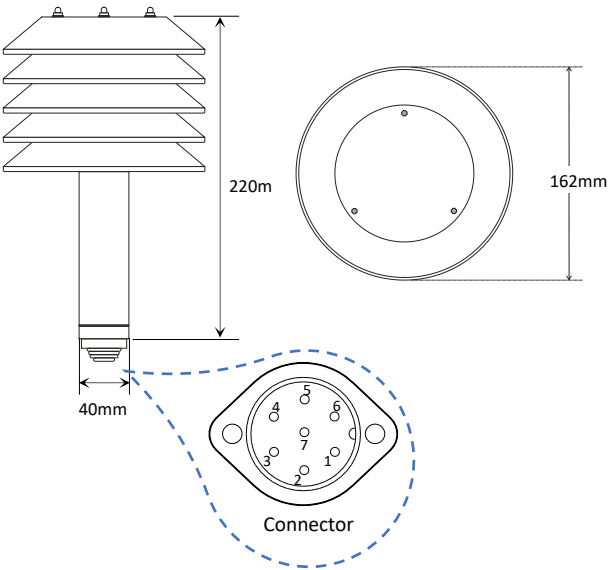
Temperature: RTD sensing element 1/3DIN Pt100, connection with a four-wire Pt100 output or electrical signal in current or voltage (4÷20mA, 0÷2Vdc) or RS485/Modbus.

Relative Humidity: Sensor for air relative humidity measurement at low power (<0.1 W), made of a thin film that changes the capacity in linear mode with the air humidity. Available with different signal outputs, normalized voltage or current (0÷1Vdc, 4÷20mA) or Rs485/Modbus.

Typical range	T: -40 ÷ +60°C (-60+80°C available)	RH: 0 ÷ 100%
Resolution	T: 0.01°C	RH: 0.1%
Accuracy	T: DIN 43760 1/3DIN (±0.1°C @ 0°C): <0.3°C full scale	RH: ± 1% f.s. @23°C
Response time	T: < 8 s	RH: < 8sec (10÷80%RH)
Type of transducer	T: Platinum resistance Pt100 1/3DIN (100Ω @ 0°C)	RH: Capacitive with sinter filter cap 10µm
Ventilation	Natural (cod. UTA), Forced (cod. UTAV)	
Signal out	0÷1 Vdc (Rh) & Pt100(T); 0÷1 Vdc (Rh) & 0÷2 Vdc(T); 4 ÷ 20mA (Rh) & 4 ÷ 20mA(T); 2 x RS485 /ModBus	
Working conditions	-50 ÷ +80°C (-60 ÷ +80°C available)	
Protections	Polarity reverse and transient	
Made of	Aluminium alloy, stainless steel screws IP66 body IP68 connector	
Power supply and consumption	10÷28Vdc, (typ.<0.1W, max 2W@12Vdc mod. UTAV)	
Weight	680g	

Size and connections

Pin	UTA(V)-A	UTA(V)-B	UTA(V)-C	UTA(V)-N
1	--	--	--	T Pt100
2	T Out V+	T Out I+	T RS485 A	T Pt100
3	T Out V-	T Out I-	T RS485 B	T Pt100
4	Gnd	Gnd	Gnd	T Pt100
5	Vdc:10÷28V	Vdc:10÷28V	Vdc:10÷28V	Vdc:10÷28V
6	RH% Out V+	RH% Out I+	RH RS485 A	RH% Out V+
7	RH% Out V-	RH% Out I-	RH RS485 B	RH% Out V-



Order Code

Sensor	Air Temperature and Humidity Sensor. Fan Air Temperature and Humidity Sensor				UTA UTAV			
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 SSU – Sensor support L=700-750mm						05 10 xx	SSU

*specify the length for no standard measures

example of order code

UTA C 10 SSU