

Outdoor Humidity, Temperature Sensor with weather shield

Active humidity and temperature sensor (0...10 V) for outside applications. The radiation shield protects the outside sensors from rain and radiated heat. With the curved shape and color of the plates air flow is able to move across the sensors to keep radiated temperatures from rooftops and surrounding surfaces from affecting humidity readings.





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Туре	Output signal active temperature	Output signal active humidity
22UTH-110X	DC 05 V, DC 010 V	DC 05 V, DC 010 V

Technical Data				
Electrical data	Power Supply DC	1524 V, ±10%, 0.4 W		
	Power Supply AC	24 V, ±10%, 0.8 VA		
	Electrical connection	Removable spring loaded terminal block max. 2.5 mm <sup>2</sup>		
	Cable entry	Cable gland PG11 Ø610 mm, with strain relief Ø68 mm		
Functional data	Multirange	4 measuring ranges selectable		
	Output signal active note	Output DC 05/10 V with Jumper adjustable Voltage output: min. 10 $k\Omega$ load		
	Media	Air		
Measuring data	Measured values	Temperature Humidity Dew point Enthalpies Absolute humidity		
	Measuring range humidity	0100% rH non-condensing		
	Measuring range temperature	Active sensor: range selectable Attention: max. measuring temperature is restricted by max. medium temperature (see Safety data) Setting range [°C] range [°F] Factory		
		Setting  S0		
	Measuring range absolute humidity	adjustable at the transducer: 050 g/m³ (default setting) 080 g/m³		
	Measuring range enthalpy	085 kJ/kg		
	Measuring range dew point	adjustable at the transducer: 050 °C (default setting) -2080 °C		
	Accuracy humidity	±2% between 1090% r.H. @ 21 °C		
	Accuracy temperature active	±0.5 °C @ 25 °C		
	Operating condition air flow	max. 12 m/s		
Materials	Cable gland	PA6, white		
	Housing	Cover: Lexan, white Bottom: Lexan, white Seal: 0467 NBR70, black		



# Technical data sheet 22UTH-110X

#### Safety data

85% r.H., non-condensing
-3550 °C [-30120 °F]
-3550 °C [-30120 °F]
max. 12 m/s
III Safety Extra-Low Voltage (SELV)
UL Class 2 Supply
CE Marking
IEC/EN 60730-1 and IEC/EN 60730-2-13
pending
IP65
NEMA 4X
ISO 9001
0.24 kg

### Accessories

Scope of delivery

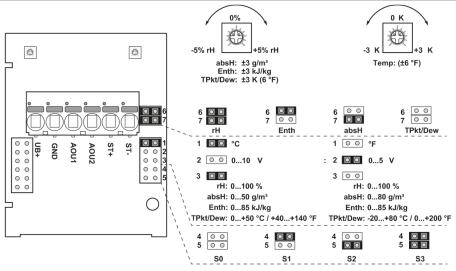
Dowel Screws

Optional accessories

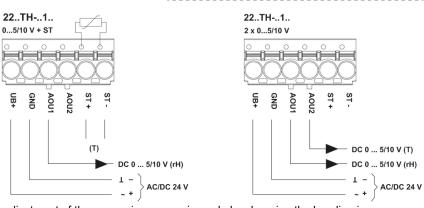
**Description**Replacement filter Stainless steel, wire mesh

**Type** A-22D-A06

## Wiring diagram



rH Relative humidity
absH Absolute humidity
EntH Enthalpy
TPkt/Dew Dew point



The adjustment of the measuring ranges is made by changing the bonding jumpers. The output value in the new measuring range is available after 2 seconds.

Setting	range [°C]	range [°F]	Factory setting
S0	-4060 °C	-40160 °F	· ·
S1	050 °C	40140 °F	
S2	-1535 °C	0100 °F	
S3	-2080 °C	0200 °F	~



## **Dimensions**

