Outside Temperature Sensor

Active sensor (4...20 mA) for measuring temperature in outdoor areas, in cold stores, greenhouses, production plants and warehouses. NEMA 4X / IP65 rated enclosure.

Type Overview

Type	Output signal active temperature	Additional features
22UT-14	4...20 mA	External sensor

Technical Data

Electrical data	Power Supply DC	15...24 V, ±10%, 0.5 W
	Electrical connection	Removable spring loaded terminal block max. 2.5 mm²
	Cable entry	cable gland PG11 Ø6...10 mm, with strain relief Ø6...8 mm
Functional data	Multirange	YES
	Output signal active note	Current outout: max. 500 Ω load
	Media	Air
Measuring data	Measured values	Temperature
	Measuring range temperature	range selectable

Setting	range [°C]	range [°F]	Factory setting
S0	-50...50 °C	-30...130 °F	✔
S1	-10...120 °C	0...250 °F	
S2	0...50 °C	40...140 °F	
S3	0...250 °C	30...480 °F	
S4	-15...35 °C	0...100 °F	
S5	0...100 °C	40...240 °F	
S6	-20...80 °C	40...90 °F	
S7	0...160 °C	0...150 °F	

	Accuracy temperature	±1% of measuring range @ 21 °C
Materials	Cable gland	PA6, white
	Mounting plate	Lexan, silvergray RAL7001
	Housing	Cover: Lexan, white Bottom: Lexan, white Seal: 0467 NBR70, black
Safety data	Ambient humidity	85% r.h., non-condensing
	Ambient Temperature	-35...50 °C [-30...122 °F]
	Housing surface temperature	Max. 70 °C [160 °F]
	Protection class IEC/EN	III Safety Extra-Low Voltage (SELV)
	Protection class UL	UL Class 2 Supply
	EU Conformity	CE Marking
	Certification IEC/EN	IEC/EN 60730-1 and IEC/EN 60730-2-9
	Certification UL	pending
	Degree of protection IEC/EN	IP65
	Degree of protection NEMA/UL	NEMA 4X
	Quality Standard	ISO 9001
	Weight	0.11 kg

Safety notes

⚠️ The installation and assembly of electrical equipment should only be performed by authorized personnel.

The product should only be used for the intended application. Unauthorised modifications are prohibited! The product must not be used in relation with any equipment that in case of a failure may threaten, directly or indirectly, human health or life or result in danger to human beings, animals or assets. Ensure all power is disconnected before installing. Do not connect to live/operating equipment.
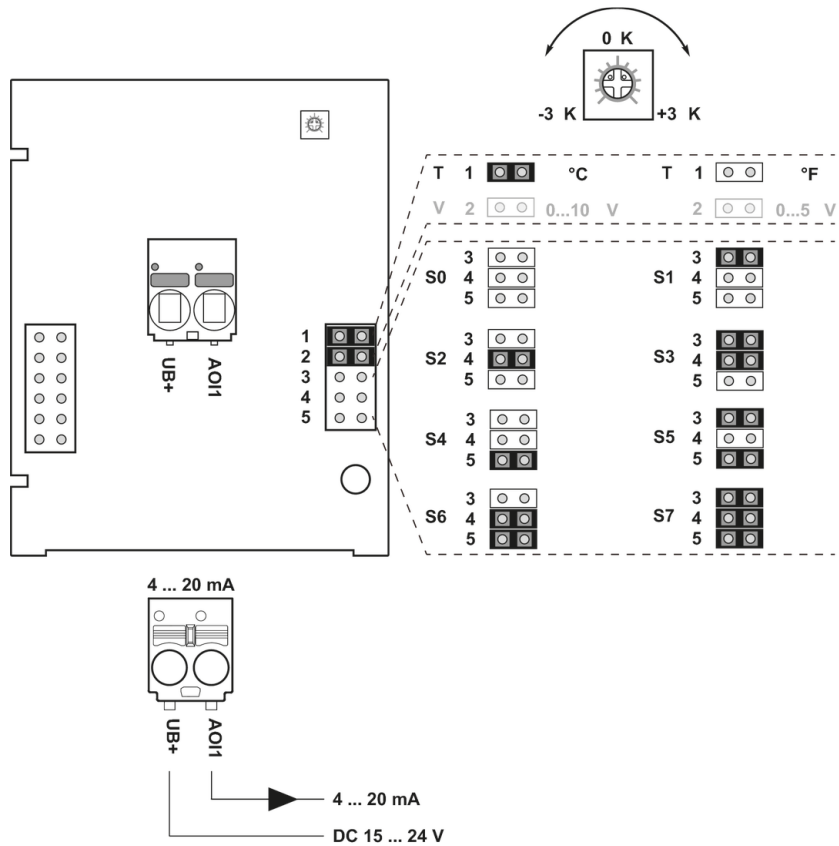
Please comply with
• Local laws, health & safety regulations, technical standards and regulations
• Condition of the device at the time of installation, to ensure safe installation
• This data sheet and installation manual

Accessories

Scope of delivery   Mounting plate
Dowel
Screws

Wiring diagram

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.

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S0	-50...50 °C	-30...130 °F	✔
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S2	0...50 °C	40...140 °F	
S3	0...250 °C	30...480 °F	
S4	-15...35 °C	0...100 °F	
S5	0...100 °C	40...240 °F	
S6	-20...80 °C	40...90 °F	
S7	0...160 °C	0...150 °F	

Dimensions

0.17" [4.2]

0.62" [15.66]

0.36" [9.2]

1.26" [32.12]

0.63" [16.0]

2.58" [65.52]

0.51" [12.96]

0.63" [16.0]

0.63" [16.0]

3.54" [89.8]

1.91" [48.5]

3.11" [78.91]