

**Technical data sheet** 

22UT-14

**Outdoor sensor Temperature** 

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





Type Overview				
	Туре	Output signal active temperature	Additional features	
	22UT-14	420 mA	External sensor	
Technical Data				
Electrical data	Nominal voltage	DC 24 V		
	Nominal voltage range	DC 13.526.4 \		
	Power consumption DC	0.5 W		
	Electrical connection		ng loaded terminal block max.	2.5
	Cable entry	Cable gland wit	th strain relief Ø68 mm	
Functional data	Sensor Technology	Based on Pt100	Based on Pt1000 1/3 DIN 8 measuring ranges selectable	
	Multirange	8 measuring ra		
	Current output	1x 420 mA, m	ax. load 500 Ω	
	Application	Air		
Measuring data	Measuring values	Temperature		
	Measuring range temperature	Attention: max. by max. fluid te		stricted Factory setting
		S7	0160 0150	
	Accuracy temperature active	±0.5°C @ 21°C	[±0.9°F @ 70°F]	
	Long-term stability	±0.04°C p.a. @	21°C [±0.07°F p.a. @ 70°F]	
	Time constant $\tau$ (63%) in the roo	om Typical 542 s		
Materials	Cable gland	PA6, white		
	Mounting plate	Lexan, grey RAI	L7001	
	Housing	Cover: Lexan, v Bottom: Lexan, Seal: 0467 NBR UV resistant	white	
Safety data	Ambient humidity	Max. 95% r.H.,	Max. 95% r.H., non-condensing	
	Ambient temperature	-3550°C [-30.	<del>-</del>	



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Fluid temperature	-3550°C [-30120°F]
Housing surface temperature	Max. 70°C [160°F]
Protection class IEC/EN	III Protective extra-low voltage (PELV)
Protection class UL	UL Class 2 Supply
EU Conformity	CE Marking
Certification IEC/EN	IEC/EN 60730-1
Degree of protection IEC/EN	IP65
Degree of protection NEMA/UL	NEMA 4X
Quality Standard	ISO 9001

# Safety notes



This device has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used outside the specified field of application. Unauthorised modifications are prohibited. The product must not be used in relation with any equipment that in case of a failure may threaten humans, animals or assets.

Ensure all power is disconnected before installing. Do not connect to live/operating equipment. Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied during installation.

The device contains electrical and electronic components and must not be disposed of as household refuse. All locally valid regulations and requirements must be observed.

# Remarks

#### General remarks concerning sensors

When using lengthy connection wires (depending on the cross section used) the measuring result might be falsified due to a voltage drop at the common GND-wire (caused by the voltage current and the line resistance). In this case, 2 GND-wires must be wired to the sensor - one for supply voltage and one for the measuring current.

Sensing devices with a transducer should always be operated in the middle of the measuring range to avoid deviations at the measuring end points. The ambient temperature of transducer electronics should be kept constant. The transducers must be operated at a constant supply voltage (±0.2 V). When switching the supply voltage on/off, onsite power surges must be avoided.

# Scope of delivery

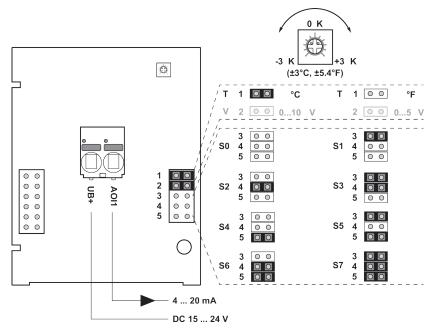
Scope of delivery	Description	Туре
	Mounting plate S housing	A-22D-A09
	Dowel	
	Screws	

### **Accessories**

Optional accessories	Description	Туре
	Connection adapter, M20x1.5, for cable 1x6 mm, Multipack 10 pcs.	A-22G-A01.1

# Wiring diagram

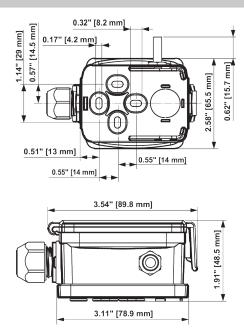




The adjustment of the measuring ranges is made by changing the bonding jumpers. The output value in the new measuring range is available after 2 seconds.

Setting	range [°C]	range [°F]	Factory setting
S0	-5050	-30130	<b>*</b>
S1	-10120	0250	
S2	050	40140	
S3	0250	30480	
S4	-1535	0100	
S5	0100	40240	
S6	-2080	4090	
S7	0160	0150	

# **Dimensions**



Туре	Probe length	Weight
22UT-14	25 mm	0.13 kg