

Outdoor Temperature Sensor

Active sensor (0...10 V) 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-12	DC 05 V,	External sensor
	DC 010 V	

Technical Data					
Electrical data	Power supply DC	1524 V, ±10%, 0.5 W			
	Power supply AC	24 V, , ±	10%, 0.8 VA		
	Electrical connection	Removal 2.5 mm²	ole spring loade	ed terminal blo	ock max.
	Cable entry	Cable gla	and with strain i	elief Ø68 m	nm
Functional data	Multirange	8 measu	ring ranges sele	ectable	
	Output signal active note		C 05/10 V wir output: min. 5 k		justable
	Application	Air			
Measuring data	Measuring values	Temperature			
	Measuring range temperature	Attention restricted Safety da Setting S0 S1 S2 S3 S4 S5 S6	range [°C] -5050°C -10120°C 050°C 0250°C -1535°C 0100°C -2080°C	range [°F] -30130°F 40140°F 40140°F 30480°F 0100°F 40240°F 4090°F	see Factory setting
	Accuracy temperature active	\$7 +0.5°C @	0160°C	0150°F	
Materials	Cable gland		±0.5°C @ 21°C [±0.9°F @ 70°F] PA6, white		
Waterials	Mounting plate				
		Lexan, grey RAL7001			
	Housing	Cover: Lexan, white Bottom: Lexan, white			
			67 NBR70, blac	:k	
		UV resist	tant		



Technical data sheet	22UT-12
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Safety data

Ambient humidity	Max. 95% r.H., non-condensing
Ambient temperature	-3550°C [-30120°F]
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
Certification UL	cULus acc. to UL60730-1A/-2-9, CAN/CSA E60730-1:02/-2-9
Degree of protection IEC/EN	IP65
Quality Standard	ISO 9001
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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

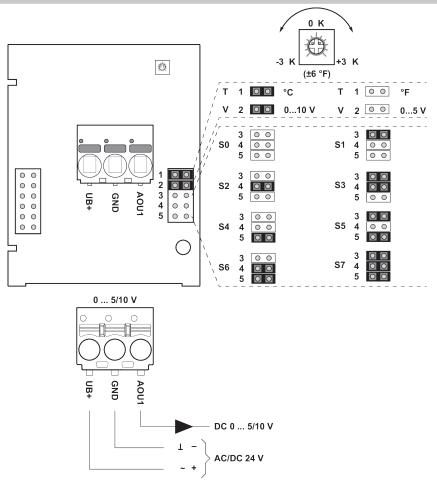
Scope of delivery	Description	Туре	
	Mounting plate S housing	A-22D-A09	
	Dowel		
	Coroug		

Accessories

Optional accessories	Description	Туре
	Connection adapter, M20, for cable 1 x 6 mm, Multipack 10 pcs.	A-22G-A01.1



Wiring diagram



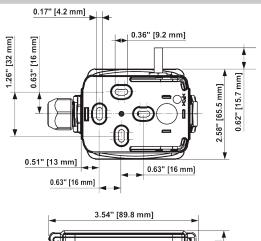
The adjustment of the measuring ranges is made by changing the bonding jumpers. The output value in the new measuring range is available after 2 seconds.

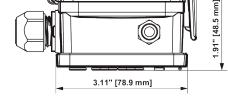
Setting	range [°C]	range [°F]	Factory setting
S0	-5050°C	-30130°F	~
S1	-10120°C	40140°F	
S2	050°C	40140°F	
S3	0250°C	30480°F	
S4	-1535°C	0100°F	
S5	0100°C	40240°F	
S6	-2080°C	4090°F	
S7	0160°C	0150°F	



Dimensions

Dimensions





Туре	Probe length	Weight
22UT-12	25 mm	0.13 kg