

Outside Temperature Sensor

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	
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Ту	/ре	Output signal Additiona active temperature features	
22	2UT-54	420 mA	External sensor

Technical Data					
Electrical Data	Power supply DC	1524 V, ±10%, 0.5 W			
	Electrical connection	Removable spring loaded terminal block ma. 2.5 mm ²			ock max.
	Cable entry	-	and with strain duit adapter in		nm (1/2"
Functional Data	Multirange	8 measu	ring ranges sel	ectable	
	Output signal active note	current o	utput: max. 50	0 Ω load	
	Application	air			
Measuring Data	Measuring values	temperat	ure		
	Measuring range temperature				
		Active se	ensor: range se	lectable	
		Attention	: max. measuri	ing temperatu	re is
			by max. fluid		
		Safety da	-	max. naid temperature (366	
		Setting	range [°C]	range [°F]	Factory
		S0	-5050°C	-30130°F	~
		S1	-10120°C	0250°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	
	Accuracy temperature active	±0.9°F @	70°F [±0.5°C	@ 21°C]	
Materials	Cable gland	PA6, bla	ck		
	Mounting plate	Lexan, gray RAL7001			
	Housing	cover: lexan, gray			
		base: lex			
		seal: 046	37 NBR70, blac	k	
		UV resist			



Technical data sheet 2	22UT-54
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Safety Data

Ambient humidity	max. 95% r.H., non-condensing
Ambient temperature	-30120°F [-3550°C]
Fluid temperature	-30120°F [-3550°C]
Housing surface temperature	max. 160°F [70°C]
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 the 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

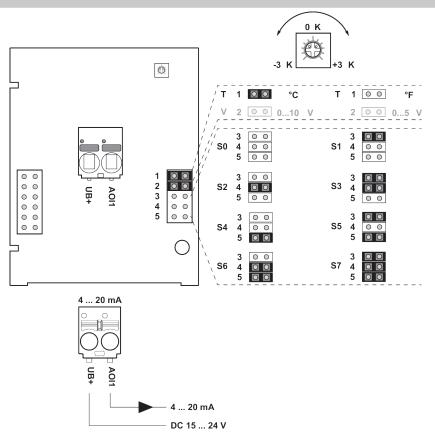
Scope of delivery	Description	Туре
	Mounting plate S housing	A-22D-A09

Dowel Screws

1/2" NPT conduit adapter



Wiring Diagram



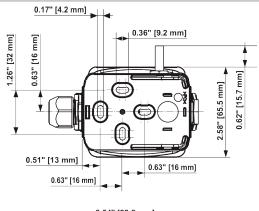
The adjustment of the measuring ranges is made by changing the bonding jumpers. The output value in the new measuring range is available after 2 seconds.

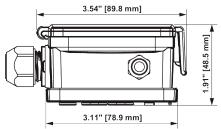
Setting	range [°C]	range [°F]	Factory setting
S0	-5050°C	-30130°F	~
S1	-10120°C	0250°F	
S2	050°C	40140°F	
S3	0250°C	30480°F	
S4	-1535°C	0100°F	
S5	0100°C	40240°F	
S6	-2080°C	4090°F	
S7	0160°C	0150°F	



Dimensions

Dimensions





Туре	
22UT-54	

Probe length	Weight
1" [25 mm]	0.29 lb [0.13 kg]