

# **Outside 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.





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Type	( N/C	

Туре	Output signal active temperature	Additional features
22UT-52	DC 05 V,	External sensor
	DC 010 V	

		DO 010 V				
Technical Data						
Electrical Data	Power supply DC	1524 \	1524 V, ±10%, 0.5 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 with strain relief Ø68 mm (1/2" NPT conduit adapter included)		nm (1/2"	
	Functional Data	Multirange		ring ranges sel		
		Output signal active note	•	output DC 05/10 V with jumper adjustable voltage output: min. 5 k $\Omega$ load	ıstable	
		Application	air	air		
	Measuring Data	Measuring values	tempera	ture		
		Measuring range temperature				
			Active se	Active sensor: range selectable		
			Attention	ı: max. measuri	ing temperatu	re is
				d by max. fluid t	temperature (	see
			Safety d			
			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	
	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			
				kan, gray		
				67 NBR70, blac	k	
			UV resis	tant		



Technical data sheet	22UT-52
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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

# **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

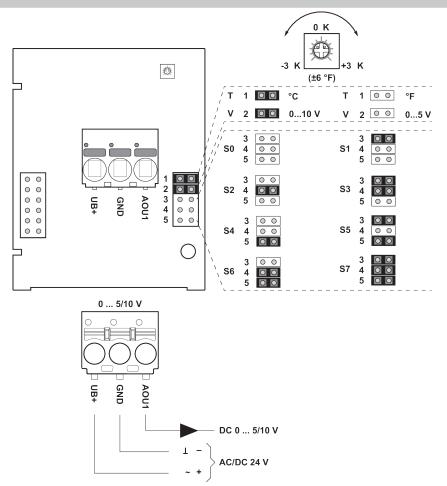
Scope of delivery	Description	Туре	
	Mounting plate S housing	A-22D-A09	

Dowel Screws

1/2" NPT conduit adapter



# Wiring Diagram



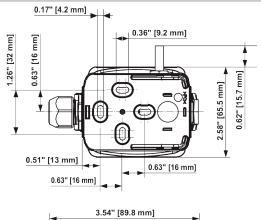
The adjustment of the measuring ranges is made by changing the bonding jumpers. The output value in the new measuring range is available after 2 seconds.

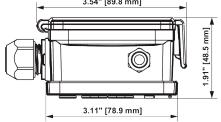
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S4	-1535°C	0100°F	
S5	0100°C	40240°F	
S6	-2080°C	4090°F	
S7	0160°C	0150°F	



## **Dimensions**

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Туре	Probe length	Weight
22UT-52	1" [25 mm]	0.29 lb [0.13 kg]