

Outdoor sensor Temperature

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.

Technical data sheet





22UT-12

	Type	Outnut	: signal active temperat	ure Ada	ditional featur	P C
	22UT-12	Оигра	05 V, 010 V		xternal sensor	
echnical data						
Electric	cal data Nominal volta	age	AC/DC 24 V	'		
	Nominal volta	age range	AC 21.620	5.4 V / DC 13.5	26.4 V	
	Power consu	mption AC	0.8 VA			
	Power consu	mption DC	0.4 W			
	Electrical con	nection	Pluggable s 2.5 mm²	spring loaded	terminal block	max.
	Cable entry		Cable gland	d with strain re	lief ø68 mm	
Function	nal data Sensor Techn	nology	Based on P	t1000 1/3 DIN		
	Application		Air			
	Multirange		8 measurin	g ranges selec	table	
	Voltage outp	ut	1 x 05 V,	010 V, min. r	esistance 5 kΩ	
	Output signa	l active note	Output 0	5/10 V with Jur	nper adjustab	le
Measuri	ng data Measured va	lues	Temperatu	re		
	Measuring ra	ange temperature				
				or: range sele		
				max. measurin		
			restricted i	restricted by max. fluid temperature (see Saf data)		e Saret
			Setting	Range [°C]	Range [°F]	Factor setting
			S0	-5050	-30130	
			S1	-10120	40140	
			S2 S3	050 0250	40140 30480	
			55 S4	-1535	0100	
			S5	0100	40240	
			S6	-2080	4090	
			S7	0160	0150	
	Accuracy tem	perature active		±0.5°C @ 21°C [±0.9°F @ 70°F] @ measuring range setting S2 and S4		
	Long-term st	ability	±0.04°C p.a	a. @ 21°C [±0.0	7°F p.a. @ 70°	F]
		nt τ (63%) in the room	Typical 542	S		
М	aterials Cable gland		PA6, white			
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Materials	Housing	Cover: PC, white Bottom: PC, white Seal: NBR70, black UV resistant
Safety data	Protection class IEC/EN	III, Protective Extra-Low Voltage (PELV)
	Power source UL	Class 2 Supply
	Degree of protection IEC/EN	IP65
	Degree of protection NEMA/UL	NEMA 4X
	Enclosure	UL Enclosure Type 4X
	EU Conformity	CE Marking
	Certification IEC/EN	IEC/EN 60730-1
	Quality Standard	ISO 9001
	Type of action	Type 1
	Rated impulse voltage supply	0.8 kV
	Installation method	Independently mounted control
	Pollution degree	3
	Ambient humidity	Max. 95% RH, non-condensing
	Ambient temperature	-3550°C [-30122°F]
	Fluid temperature	-3550°C [-30122°F]
	Housing surface temperature	Max. 70°C [160°F]

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.

Parts included

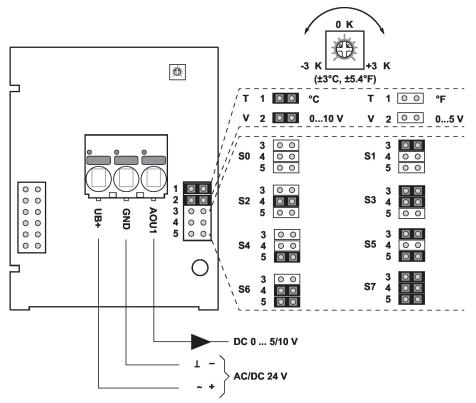
Parts included	Description	Туре
	Mounting plate S housing	A-22D-A09
	Dowels	
	Screws	

Accessories

Optional accessories Description		Туре	
	Connection adapter flex conduit, M20x1.5, for cable gland 1 x 6 mm,	A-22G-A01.1	
	Multipack 10 pcs.		



Wiring diagram

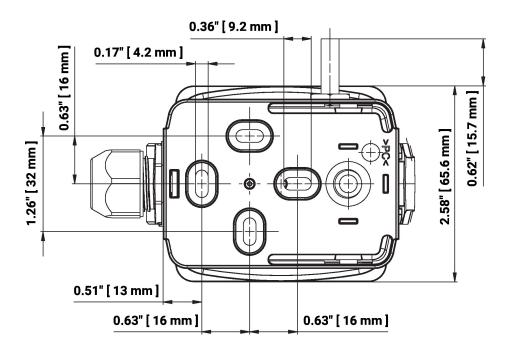


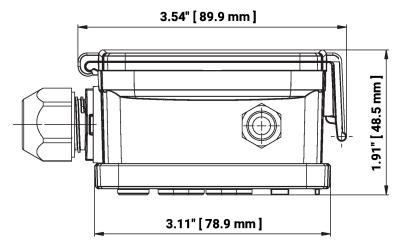
The adjustment of the measuring ranges is made by changing the bonding jumpers. The output value in the new measuring range is available after 2 seconds.

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



Dimensions





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

Further documentation

• Installation instructions