

Type Overview

Type

Outdoor sensor Temperature

For measuring temperature in outdoor areas. Typical applications at cold stores, greenhouses, production plants and warehouses. IP65 / NEMA 4X rated enclosure.



Output signal passive temperature



5 1				
01UT-1A		Pt100		
01UT-1B	Pt1000			
1UT-1C	Ni1000 Ni1000TK5000			
1UT-1D				
)1UT-1F		NTC1k8		
)1UT-1L	NTC10k (10k2)			
01UT-1N	NTC10k Carel NTC20k			
01UT-1Q				
Technical data				
Electrical dat	a Electrical connection	Pluggable spring loaded terminal block max 2.5 mm²		
	Cable entry	Cable gland with strain relief ø68 mm		
Functional dat	a Application	Air		
	Output signal passive temperature	Pt100		
	, , , , ,	Pt1000		
		Ni1000		
		Ni1000TK5000		
		NTC1k8		
		NTC10k (10k2)		
		NTC10k Carel		
		NTC20k		
Measuring dat	a Measured values	Temperature		
Specification Temperatur	e Measuring range	-3550°C [-30120°F]		
	Measuring current	Pt100: <1 mA @ 0°C [32°F]		
		Pt1000: <0.3 mA @ 0°C [32°F]		
		Ni1000: <0.3 mA @ 0°C [32°F]		
		Ni1000TK5000: <0.3 mA @ 0°C [32°F]		
		NTC1k8: <0.1 mA @ 25°C [77°F]		
		NTC10k (10k2): <2 mA @ 25°C [77°F]		
		NTC10k Carel: <0.2 mA @ 25°C [77°F]		



Technical data

Specification Temperature	Accuracy temperature passive	Passive sensors depending on used type Pt: Class B, ±0.3°C @ 0°C [±0.5°F @ 32°F] Ni: ±0.4°C @ 0°C [±0.7°F @ 32°F] NTC1k8: ±0.5°C @ 25°C [±0.9°F @ 77°F] NTC: ±0.2°C @ 25°C [±0.35°F @ 77°F]
	Time constant τ (63%) in the room	Typical 854 s
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
	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. 90°C [195°F]
Materials	Cable gland	PA6, white
	Mounting plate	PC, grey RAL 7001
	Housing	Cover: PC, white
		Bottom: PC, white
		Seal: NBR70, black UV resistant
		OALGUSTQUE

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 with 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

Due to self-heating with 2 wire passive sensors, the supply wire current affects the measurement accuracy. So the supply current should not be higher than the measuring current values specified in this data sheet.

When using lengthy connecting cables (depending on the cross section used), the cable resistance must be taken into account. The lower the impedance of the sensor used, the greater the effect of the line resistance on the measurement, because it generates an offset.



Parts included

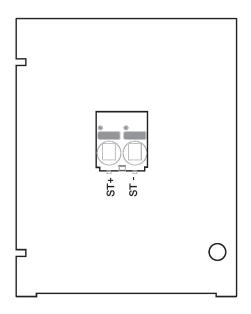
Description	Туре
Mounting plate S housing	A-22D-A09
Dowels	
Screws	

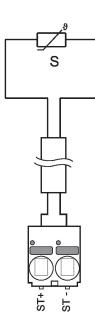
Accessories

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

Multipack 10 pcs.

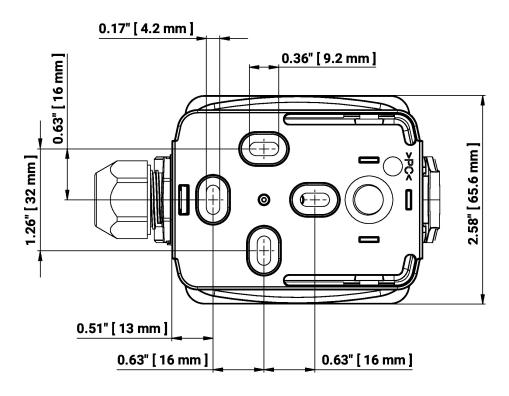
Wiring diagram

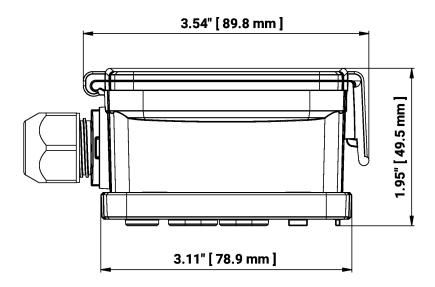






Dimensions





Further documentation

- Installation instructions
- Resistance characteristics