

Type Overview

Outdoor sensor Temperature

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





Туре	Out	put signal passive temperature	
)1UT-1A	Pt100		
1UT-1B	Pt1000		
1UT-1C	Ni1000		
11UT-1D		Ni1000TK5000	
)1UT-1F	NTC1k8		
11UT-1L		NTC10k (10k2)	
01UT-1N		NTC10k Carel	
01UT-1Q	NTC20k		
Fechnical data			
Electrical data	Electrical connection	Pluggable spring loaded terminal block max 2.5 mm ²	
	Cable entry	Cable gland with strain relief ø68 mm	
Functional data	Application	Air	
	Output signal passive temperature	Pt100 Pt1000 Ni1000 Ni1000 Ni1000TK5000 NTC1k8 NTC10k (10k2) NTC10k Carel NTC20k	
Measuring data	Measured values	Temperature	
Specification Temperature	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] NTC20k: <0.5 mA @ 25°C [77°F]	



Technical data

Specification

Temperature	Accuracy temperature passive Time constant τ (63%) in the room	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] Typical 854 s
Cafata data		**
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

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.



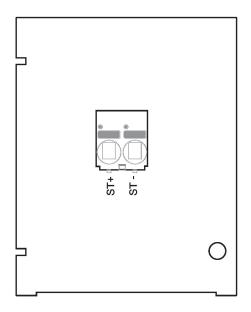
Parts included

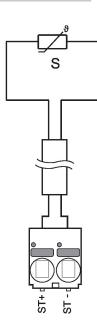
Description	Туре
Mounting plate S housing	A-22D-A09
Dowels	
Screws	

Accessories

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

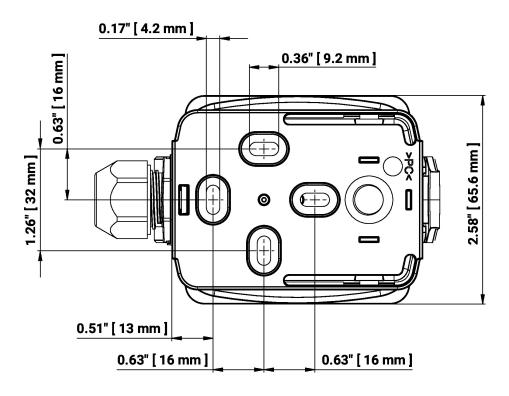
Wiring diagram

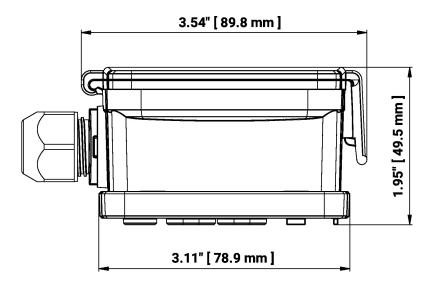






Dimensions





Туре	Weight
01UT-1A	0.12 kg
01UT-1B	0.12 kg
01UT-1C	0.12 kg
01UT-1D	0.12 kg
01UT-1F	0.12 kg
01UT-1L	0.12 kg
01UT-1N	0.12 kg







Туре	Weight
01UT-1Q	0.12 kg

Further documentation

- Installation instructions
- Resistance characteristics