

For measuring temperature in outdoor areas.

Typical applications at cold stores, greenhouses, production plants and warehouses. NEMA 4X / IP65 rated enclosure.

Technical data sheet

01UT-1..





Type Overview

Туре	Output signal passive temperature
01UT-1A	Pt100
01UT-1B	Pt1000
01UT-1C	Ni1000
01UT-1D	Ni1000TK5000
01UT-1F	NTC1k8
01UT-1L	NTC10k (10k2)
01UT-1N	NTC10k Carel
01UT-1Q	NTC20k

Technical Data

Electrical data	Electrical connection	Pluggable spring loaded terminal block max. 2.5 mm²
	Cable entry	Cable gland with strain relief Ø68 mm
Functional data	Application	Air
	Output signal passive temperature	Pt100
		Pt1000
		Ni1000
		Ni1000TK5000
		NTC1k8
		NTC10k (10k2)
		NTC10k Carel
		NTC20k
Measuring data	Measured values	Temperature
	Measuring range temperature	-3550°C [-30120°F]
	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]
	Measuring current	Pt100: <1 mA @ 0°C [32°F] Pt1000: <0.3 mA @ 0°C [32°F] Ni10001: <0.3 mA @ 0°C [32°F] Ni1000TK50001: <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]
	Time constant $ au$ (63%) in the room	Typical 854 s



Materials	Cable gland	PA6, white
	Mounting plate	PC, grey RAL7001
	Housing	Cover: PC, white
		Bottom: PC, white
		Seal: NBR70, black
		UV resistant
Safety data	Ambient humidity	Max. 95% RH, non-condensing
	Ambient temperature	-3550°C [-30120°F]
	Fluid temperature	-3550°C [-30120°F]
	Housing surface temperature	Max. 90°C [195°F]
	Protection class IEC/EN	III, Protective Extra-Low Voltage (PELV)
	Power source UL	Class 2 Supply
	EU Conformity	CE Marking
	Certification IEC/EN	IEC/EN 60730-1
	Degree of protection IEC/EN	IP65
	Degree of protection NEMA/UL	NEMA 4X
	Enclosure	UL Enclosure Type 4X
	Quality Standard	ISO 9001
	Mode of operation	Туре 1
	Pollution degree	3
	Rated impulse voltage supply	0.8 kV
	Construction	Independently mounted control

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 Due to self-heating wire measurement accurace

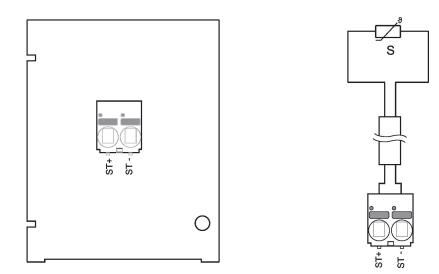
Due to self-heating with 2 wire passive sensors, the supply wire current affects the measurement accuracy. So the supply current should not be higher than the measuring current values specified in this data sheet.

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.

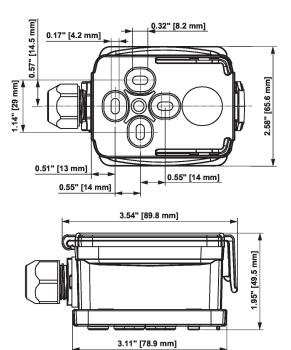
Scope of delivery

	Scope of delivery	Description	Туре
		Mounting plate S housing	A-22D-A09
		Dowel	
		Screws	
Accessories			
O	ptional accessories	Description	Туре
		Connection adapter, M20x1.5, for cable 1x6 mm, Multipack 10 pcs.	A-22G-A01.1





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
01UT-1Q	0.12 kg