

# Technical data sheet

01MT-5.

Average temperature sensor

The Pt1000 version is supplied with one continuous sensing element across the whole length of the probe to ensure optimum accuracy and eliminate air stratification problems.

NTC and Ni1000 are industry standard multipoint sensing elements.



# **Type Overview**

Туре	Output signal	Probe length	
01MT-5B4	Pt1000	3 m	
01MT-5B5	Pt1000	6 m	
01MT-5E4	Ni1000 (JCI)	3 m	
01MT-5E5	Ni1000 (JCI)	6 m	
01MT-5L4	NTC10k (10k2)	3 m	
01MT-5L5	NTC10k (10k2)	6 m	
01MT-5M4	NTC10k3 (Precon)	3 m	
01MT-5M5	NTC10k3 (Precon)	6 m	
01MT-5Q4	NTC20k	3 m	
01MT-5Q5	NTC20k	6 m	

# **Technical data**

Electrical Data	Electrical connection	Pluggable spring loaded terminal block max. 2.5 mm²	
	Cable entry	Cable gland with strain relief Ø68 mm (1/2" NPT conduit adapter included)	
Functional Data	Application	air	
	Output signal passive temperature	Pt1000 Ni1000 (JCI) NTC10k (10k2) NTC10k3 (Precon) NTC20k	
Manager			
Measuring Data	Measured values	Temperature	
	Measuring range temperature	Pt, Ni : -31158°F [-3570°C] NTC : -32122°F [050°C]	
	Accuracy temperature passive	Passive sensors depending on used type Pt : ±0.5°F @ 32°F [±0.3°C @ 0°C] Ni : ±0.7°F @ 32°F [±0.4°C @ 0°C] NTC : ±0.35°F @ 77°F [±0.2°C @ 25°C]	
	Measuring current	Pt1000: <0.3 mA @ 32°F [0°C] Ni1000 (JCI): <5 mA @ 21°C [70°F] NTC10k2: <2 mA @ 77°F [25°C] NTC10k3: <2.7 mA @ 77°F [25°C] NTC20k: <0.5 mA @ 77°F [25°C]	
	Time constant τ (63%) in air duct	Typical 100 s @ 0 m/s	
Materials	Cable gland	PA6, black	



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Materials	Housing	Cover: PC, orange Bottom: PC, orange Seal: NBR70, black UV resistant	
Safety Data	Ambient humidity	Max. 95% RH, non-condensing	
	Ambient temperature	-30120°F [-3550°C]	
	Fluid temperature	Pt, Ni : -30160°F [-3570°C] NTC : 30120°F [050°C]	
	Housing surface temperature	max. 195°F [90°C]	
	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	
	Certification UL	cULus acc. to UL60730-1A/-2-9, CAN/CSA E60730-1/-2-9	
	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. Unauthorized 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 authorized 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.

the effect of the line resistance on the measurement, because it generates an offset.

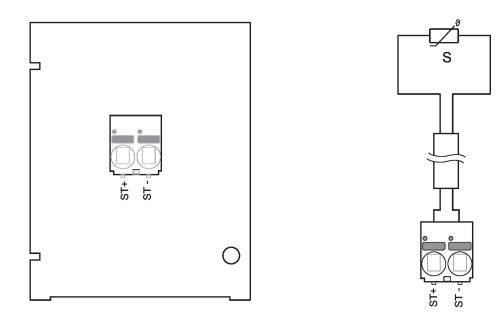
#### Remarks

General Remarks Concerning SensorsDue to self-heating with 2 wire passive sensors, the supply wire current affects the<br/>measurement accuracy. So the supply current should not be higher than the measuring current<br/>values specified in this data sheet.When using lengthy connecting cables (depending on the cross section used), the cable<br/>resistance must be taken into account. The lower the impedance of the sensor used, the greater

### Scope of delivery

Scope of delivery	Description	Туре
	Mounting kit, with 6 mounting brackets	A-22D-A08
	Mounting plate S housing	A-22D-A09
	1/2" NPT conduit adapter	





# Dimensions

