

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.





5-year warranty



Type Overview			
Туре	Output signal	Probe length	
01MT-5B4	Pt1000	10 ft [3 m]	
01MT-5B5	Pt1000	20 ft [6 m]	
01MT-5B8	Pt1000	50 ft [15 m]	
01MT-5E4	Ni1000 (JCI)	10 ft [3 m]	
01MT-5E5	Ni1000 (JCI)	20 ft [6 m]	
01MT-5L4	NTC10k (10k2)	10 ft [3 m]	
01MT-5L5	NTC10k (10k2)	20 ft [6 m]	
01MT-5M4	NTC10k3 (Precon)	10 ft [3 m]	
01MT-5M5	NTC10k3 (Precon)	20 ft [6 m]	
01MT-5Q4	NTC20k	10 ft [3 m]	
01MT-5Q5	NTC20k	20 ft [6 m]	

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Technical data		
Electrical Data	Electrical connection	Pluggable spring-loaded terminal block max.
		2.5 mm ²
	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
Measuring Data	Measured values	Temperature
Specification Temperature	Measuring range	Pt, Ni:-31158°F [-3570°C]
	J. J.	NTC : -32122°F [050°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]



Technical data Specification Temperature 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] Time constant τ (63%) in the air duct Typical 100 s @ 0 m/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 **UL 2043 Compliant** Suitable for use in air plenums per Section 300.22(C) of the NEC and Section 602 of the IMC Type of action Type 1 0.8 kV Rated impulse voltage supply Pollution degree 3 Ambient humidity Max. 95% RH, non-condensing Ambient temperature -35...50°C [-30...122°F] Fluid temperature Pt.., Ni..: -30...160°F [-35...70°C] NTC..: 0...50°C [32...122°F] Housing surface temperature max. 195°F [90°C] Materials Cable gland PA6, black Housing Cover: PC, orange Bottom: PC, orange Seal: NBR70, black

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.

UV resistant UL94 5VA

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 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.

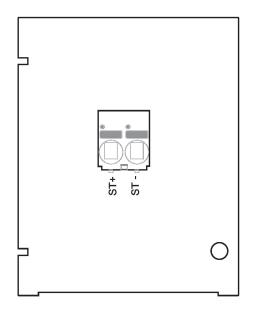
When using lengthy connecting cables (depending on the cross section used), the cable resistance must be taken into account. The lower the impedance of the sensor used, the greater the effect of the line resistance on the measurement, because it generates an offset.

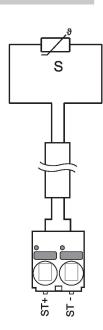


Parts included

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

Wiring Diagram

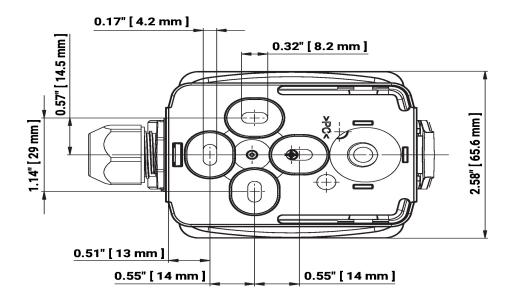


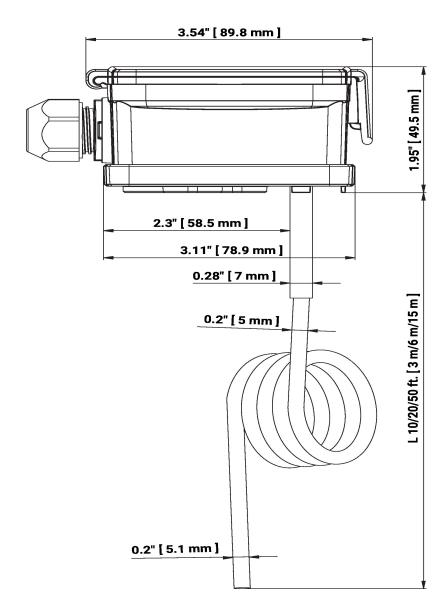




Dimensions









Dimensions

Туре	Probe length	Weight
01MT-5B4	10 ft [3 m]	0.49 lb [0.22 kg]
01MT-5B5	20 ft [6 m]	0.55 lb [0.25 kg]
01MT-5B8	50 ft [15 m]	0.55 lb [0.25 kg]
01MT-5E4	10 ft [3 m]	0.49 lb [0.22 kg]
01MT-5E5	20 ft [6 m]	0.55 lb [0.25 kg]
01MT-5L4	10 ft [3 m]	0.49 lb [0.22 kg]
01MT-5L5	20 ft [6 m]	0.55 lb [0.25 kg]
01MT-5M4	10 ft [3 m]	0.49 lb [0.22 kg]
01MT-5M5	20 ft [6 m]	0.55 lb [0.25 kg]
01MT-5Q4	10 ft [3 m]	0.49 lb [0.22 kg]
01MT-5Q5	20 ft [6 m]	0.55 lb [0.25 kg]

Further documentation

- Installation instructions
- Resistance characteristics