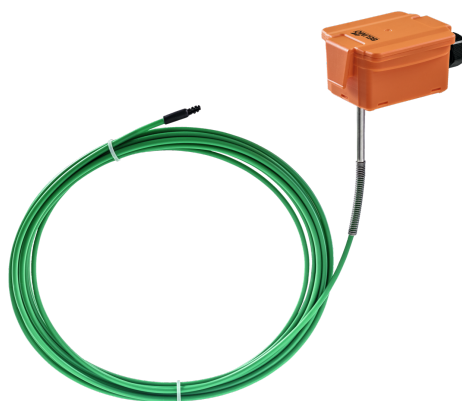


Average temperature sensor

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.



Type Overview

Type	Output signal	Probe length
01MT-1B4	Pt1000	3 m
01MT-1B5	Pt1000	6 m
01MT-1B8	Pt1000	15 m

Technical data

	Electrical data	Electrical connection	Pluggable spring loaded terminal block max. 2.5 mm ²
		Cable entry	Cable gland with strain relief ø6...8 mm
	Functional data	Medium	Air
	Measuring data	Measured values	Temperature
Specification temperature passive		Measuring range	-35...70°C [-30...160°F]
		Measuring current	<0.3 mA @ 0°C [32°F]
		Accuracy temperature	Class B, ±0.3°C @ 0°C [±0.5°F @ 32°F]
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
		Housing	UL Enclosure Type 4X
		EU Conformity	CE Marking
		Certification IEC/EN	IEC/EN 60730-1
		Quality Standard	ISO 9001
		UL Approval	cULus acc. to UL60730-1A/-2-9, CAN/CSA E60730-1/-2-9
		Type of action	Type 1
		Rated impulse voltage supply	0.8 kV
		Pollution degree	3
		Ambient humidity	Max. 95% RH, non-condensing
		Ambient temperature	-35...50°C [-30...120°F]
		Fluid temperature	-35...70°C [-30...160°F]
		Housing surface temperature	Max. 90°C [195°F]
Materials	Housing		Cover: PC, orange Bottom: PC, orange Seal: NBR70, black UV resistant
		Cable gland	PA6, 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. 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.

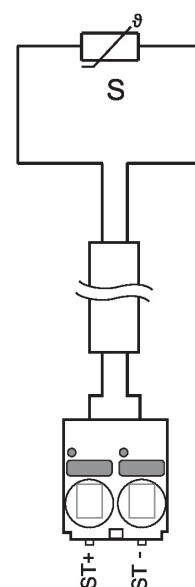
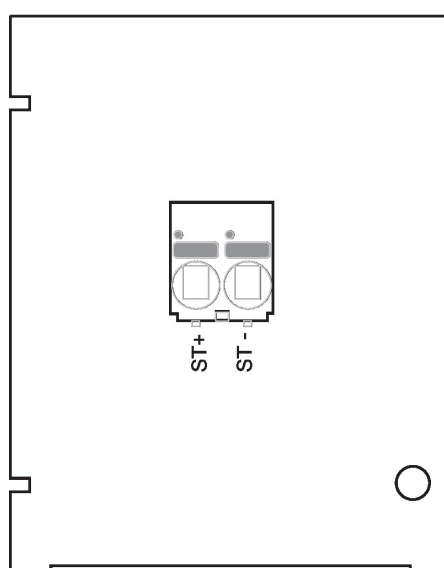
Parts included

Description	Type
Mounting kit, with 6 mounting brackets	A-22D-A08
Mounting plate S housing	A-22D-A09

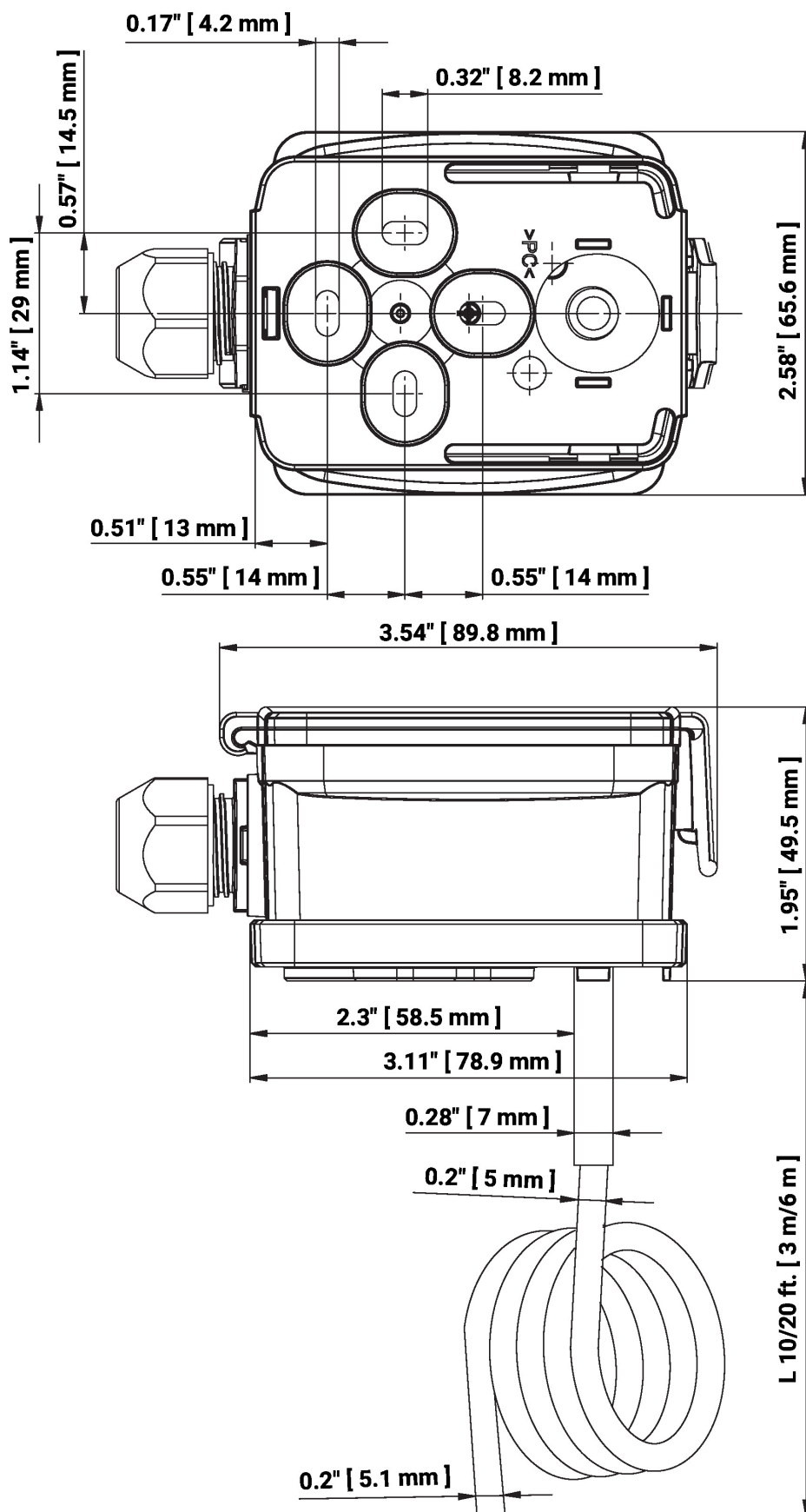
Accessories

Optional accessories	Description	Type
	Connection adapter flex conduit, M20x1.5, for cable gland 1x 6 mm, Multipack 10 pcs.	A-22G-A01.1
	Mounting kit, with 6 mounting brackets	A-22D-A08

Wiring diagram



Dimensions



L = Probe length

Type	Probe length	Weight
01MT-1B4	3 m	0.17 kg
01MT-1B5	6 m	0.21 kg

Dimensions

Type	Probe length	Weight
01MT-1B8	15 m	0.21 kg

Further documentation

- Installation instructions
- Resistance characteristics