



5-year warranty



Type Overview

Type	Output signal passive temperature
01ST-5A3	Pt100
01ST-5B3	Pt1000
01ST-5E3	Ni1000 (JCI)
01ST-5L3	NTC10k (10k2)
01ST-5M3	NTC10k3 (Precon)
01ST-5Q3	NTC20k

Technical data

Electrical Data	Electrical connection	cable 2 m, 2-wire
Functional Data	Application	water
	Output signal passive temperature	Pt100 Pt1000 Ni1000 (JCI) NTC10k (10k2) NTC10k3 (Precon) NTC20k
Measuring Data	Measured values	Temperature
	Measuring range temperature	-40...300°F [-40...150°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	Pt100: <1 mA @ 32°F [0°C] 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%) on water pipe	With thermal contact fluid Typical 17 s
Safety Data	Ambient humidity	Max. 95% RH, non-condensing
	Ambient temperature	-40...300°F [-40...150°C]
	Fluid temperature	-40...300°F [-40...150°C]
	Protection class IEC/EN	III, Protective Extra-Low Voltage (PELV)
	Power source UL	Class 2 Supply
	Certification IEC/EN	IEC/EN 60730-1
	Certification UL	cULus acc. to UL60730-1A/-2-9, CAN/CSA E60730-1/-2-9

Safety Data	Degree of protection IEC/EN	IP65
	Quality Standard	ISO 9001
	Mode of operation	Type 1
	Pollution degree	3
	Rated impulse voltage supply	0.8 kV
	Construction	Independently mounted control
	Method of mounting control	Surface mounted

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.

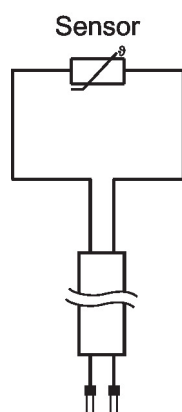
Scope of delivery

Scope of delivery	Description	Type
	Fixing strap, for pipes up to Ø 1.6...4.3" [40...110 mm]	A-22P-A47

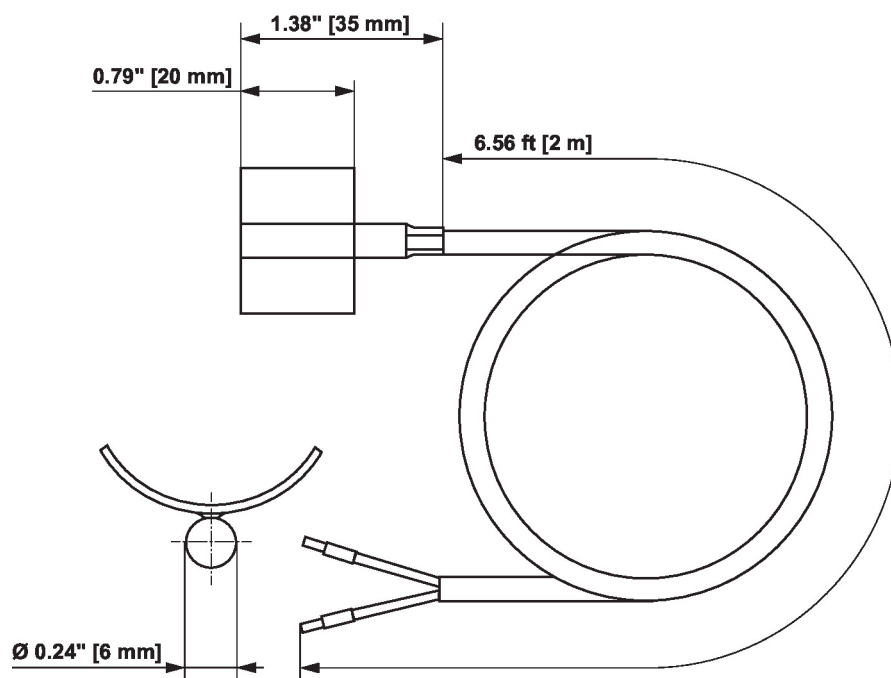
Accessories

Optional accessories	Description	Type
	Fixing strap, for pipes up to Ø 1.6...9.8" [40...250 mm]	A-22P-A49
	Syringe with thermal paste	A-22P-A44

Wiring Diagram



Dimensions



Type	Weight
01ST-5A3	0.13 lb [0.06 kg]
01ST-5B3	0.13 lb [0.06 kg]
01ST-5E3	0.13 lb [0.06 kg]
01ST-5L3	0.13 lb [0.06 kg]
01ST-5M3	0.13 lb [0.06 kg]
01ST-5Q3	0.13 lb [0.06 kg]