

Duct/Immersion sensor Temperature

For measuring temperature in duct applications. In connection with a stainless steel or brass thermowell also applicable for pipe applications. NEMA 4X / IP65 rated enclosure.

Technical data sheet

- CONTROL

01DT-5M..



Type Overview

Output signal	Probe length	Probe diameter
NTC10k3 (Precon)	2" [50 mm]	0.24" [6 mm]
NTC10k3 (Precon)	4" [100 mm]	0.24" [6 mm]
NTC10k3 (Precon)	6" [150 mm]	0.24" [6 mm]
NTC10k3 (Precon)	8" [200 mm]	0.24" [6 mm]
NTC10k3 (Precon)	12" [300 mm]	0.24" [6 mm]
NTC10k3 (Precon)	18" [450 mm]	0.24" [6 mm]
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Technical data

Electrical Data	Electrical connection	Pluggable spring loaded terminal block max.
Electrical Data		2.5 mm ²
	Cable entry	Cable gland with strain relief Ø68 mm (1/2"
		NPT conduit adapter included)
Functional Data	Application	air
		water
	Output signal passive temperature	NTC10k3 (Precon)
Measuring Data	Measured values	Temperature
	Measuring range temperature	-60300°F [-50150°C]
	Accuracy temperature passive	±0.35°F @ 77°F [±0.2°C @ 25°C]
	Measuring current	<2.7 mA @ 77°F [25°C]
	Time constant τ (63%) in air duct	Typical 210 s @ 0 m/s
		Typical 46 s @ 3 m/s
	Time constant τ (63%) in water pipe	With thermowell A-22P-A and thermal contact fluid
		Typical 7 s with thermowell brass
		Typical 9 s with thermowell stainless steel
Materials	Cable gland	Plug Adapter: PA66, black
	5	Nut: PA6, black
	Housing	Cover: PC, orange
		Bottom: PC, orange
		Seal: NBR70, black
		UV resistant
	Probe material	AISI 316L
Safety Data	Ambient humidity	Max. 95% RH, non-condensing
	Ambient temperature	-30120°F [-3550°C]
	Fluid temperature	-60300°F [-50150°C]
	Housing surface temperature	max. 195°F [90°C]
	Protection class IEC/EN	III, Protective Extra-Low Voltage (PELV)



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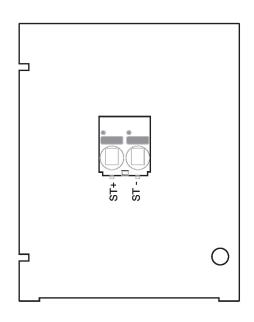
Safety Data	Power source UL Class	2 Supply
	EU Conformity CE Ma	arking
	Certification IEC/EN IEC/EI	N 60730-1
		s acc. to UL60730-1A/-2-9, CAN/CSA 30-1/-2-9
	Degree of protection IEC/EN IP65	
	Degree of protection NEMA/UL NEMA	4 4X
	Quality Standard ISO 90	001
	Mode of operation Type 7	1
	Pollution degree 3	
	Rated impulse voltage supply 0.8 kV	/
	Construction Indep	pendently mounted control
Safety Notes		
Ĺ	This device has been designed for use in stationary he systems and must not be used outside the specified fie modifications are prohibited. The product must not be in case of a failure may threaten humans, animals or a	eld of application. Unauthorized e used in relation with any equipment that
	Ensure all power is disconnected before installing. Do	not connect to live/operating equipment.
	Only authorized specialists may carry out installation.	
	installation regulations must be complied during insta	allation.
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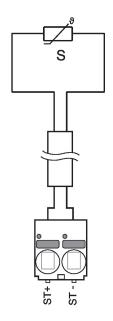


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Recommended accessories water	Description	Туре
	Thermowell (fabricated) Stainless steel, 2" [50 mm], 1/2" NPT, wrench size 3/4"	A-22P-A05
	Thermowell (fabricated) Brass, 2" [50 mm], 1/2" NPT, wrench size 3/4"	A-22P-A17
	Thermowell (machined) Stainless steel, 2" [50 mm], 1/2" NPT, wrench size 3/4"	A-22P-A36
	Syringe with thermal paste	A-22P-A44
	Thermowell (fabricated) Stainless steel, 4" [100 mm], 1/2" NPT, wrench size 3/4"	A-22P-A07
	Thermowell (fabricated) Brass, 4" [100 mm], 1/2" NPT, wrench size 3/4"	A-22P-A19
	Thermowell (machined) Stainless steel, 4" [100 mm], 1/2" NPT, wrench size 3/4"	A-22P-A37
	Cold barrier, Plastic, L 50 mm, for thermowell A-22P-A	A-22P-A51
	Thermowell (fabricated) Stainless steel, 6" [150 mm], 1/2" NPT, wrench size 3/4"	A-22P-A09
	Thermowell (fabricated) Brass, 6" [150 mm], 1/2" NPT, wrench size 3/4"	A-22P-A21
	Thermowell (machined) Stainless steel, 6" [150 mm], 1/2" NPT, wrench size 3/4"	A-22P-A38
	Thermowell (fabricated) Stainless steel, 8" [200 mm], 1/2" NPT, wrench size 3/4"	A-22P-A11
	Thermowell (fabricated) Brass, 8" [200 mm], 1/2" NPT, wrench size 3/4"	A-22P-A23
	Thermowell (machined) Stainless steel, 8" [200 mm], 1/2" NPT, wrench size 3/4"	A-22P-A39
	Thermowell (fabricated) Stainless steel, 12" [300 mm], 1/2" NPT, wrench size 3/4"	A-22P-A13
	Thermowell (fabricated) Brass, 12" [300 mm], 1/2" NPT, wrench size 3/4"	A-22P-A25
	Thermowell (fabricated) Stainless steel, 18" [450 mm], 1/2" NPT, wrench size 3/4"	A-22P-A15
	Thermowell (fabricated) Brass, 18" [450 mm], 1/2" NPT, wrench size 3/4"	A-22P-A27

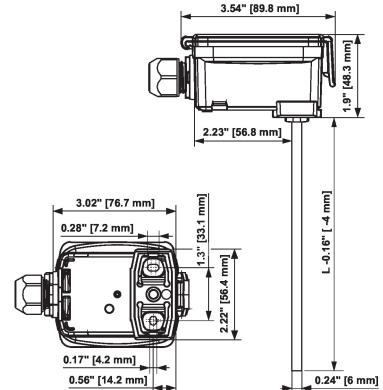
Wiring Diagram











L = Probe length

Туре	Probe length	Weight
01DT-5MH	2" [50 mm]	0.26 lb [0.12 kg]
01DT-5ML	4" [100 mm]	0.26 lb [0.12 kg]
01DT-5MN	6" [150 mm]	0.29 lb [0.13 kg]
01DT-5MP	8" [200 mm]	0.29 lb [0.13 kg]
01DT-5MR	12" [300 mm]	0.31 lb [0.14 kg]
01DT-5MT	18" [450 mm]	0.33 lb [0.15 kg]