

Duct / Immersion Temperature Sensor

Duct/Immersion temperature sensor for duct and pipe applications. NEMA 4X / IP65 rated enclosure. Various stainless steel probe lengths available. Stainless steel or brass thermowell pockets should be purchased with sensors intended for immersion applications.



Type Overview

Type	Output Signal Passive Temperature	Probe Length	Probe Diameter
01DT-5AH	PT100	2" [50 mm]	0.24" [6 mm]
01DT-5AL	PT100	4" [100 mm]	0.24" [6 mm]
01DT-5AN	PT100	6" [150 mm]	0.24" [6 mm]
01DT-5AP	PT100	8" [200 mm]	0.24" [6 mm]
01DT-5AR	PT100	12" [300 mm]	0.24" [6 mm]
01DT-5AT	PT100	18" [450 mm]	0.24" [6 mm]
01DT-5BH	PT1000	2" [50 mm]	0.24" [6 mm]
01DT-5BL	PT1000	4" [100 mm]	0.24" [6 mm]
01DT-5BN	PT1000	6" [150 mm]	0.24" [6 mm]
01DT-5BP	PT1000	8" [200 mm]	0.24" [6 mm]
01DT-5BR	PT1000	12" [300 mm]	0.24" [6 mm]
01DT-5BT	PT1000	18" [450 mm]	0.24" [6 mm]
01DT-5EH	Ni1000 (JCI)	2" [50 mm]	0.24" [6 mm]
01DT-5EL	Ni1000 (JCI)	4" [100 mm]	0.24" [6 mm]
01DT-5EN	Ni1000 (JCI)	6" [150 mm]	0.24" [6 mm]
01DT-5EP	Ni1000 (JCI)	8" [200 mm]	0.24" [6 mm]
01DT-5ER	Ni1000 (JCI)	12" [300 mm]	0.24" [6 mm]
01DT-5ET	Ni1000 (JCI)	18" [450 mm]	0.24" [6 mm]
01DT-5LH	NTC10k2	2" [50 mm]	0.24" [6 mm]
01DT-5LL	NTC10k2	4" [100 mm]	0.24" [6 mm]
01DT-5LN	NTC10k2	6" [150 mm]	0.24" [6 mm]
01DT-5LP	NTC10k2	8" [200 mm]	0.24" [6 mm]
01DT-5LR	NTC10k2	12" [300 mm]	0.24" [6 mm]
01DT-5LT	NTC10k2	18" [450 mm]	0.24" [6 mm]
01DT-5MH	NTC10k3	2" [50 mm]	0.24" [6 mm]
01DT-5ML	NTC10k3	4" [100 mm]	0.24" [6 mm]
01DT-5MN	NTC10k3	6" [150 mm]	0.24" [6 mm]
01DT-5MP	NTC10k3	8" [200 mm]	0.24" [6 mm]
01DT-5MR	NTC10k3	12" [300 mm]	0.24" [6 mm]
01DT-5MT	NTC10k3	18" [450 mm]	0.24" [6 mm]
01DT-5QH	NTC20k	2" [50 mm]	0.24" [6 mm]
01DT-5QL	NTC20k	4" [100 mm]	0.24" [6 mm]
01DT-5QN	NTC20k	6" [150 mm]	0.24" [6 mm]
01DT-5QP	NTC20k	8" [200 mm]	0.24" [6 mm]
01DT-5QR	NTC20k	12" [300 mm]	0.24" [6 mm]
01DT-5QT	NTC20k	18" [450 mm]	0.24" [6 mm]

Technical Data

Electrical Data	Cable Entry	cable gland PG11 Ø6 to 10 mm, with strain relief Ø6 to 8 mm, 1/2" conduit adapter included
	Output Signal Passive Temperature	PT100 PT1000 Ni1000 (JCI) NTC10k2 NTC10k3 NTC20k
Functional Data	Media	air water
	Measured Values	temperature
Measuring Data	Measuring Range Temperature Settings	PT.., Ni.. : -60°F to 320°F [-50°C to 160°C] NTC.. : -60°F to 300°F [-50°C to 150°C]
	Accuracy Temperature	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.. = ±0.3°F @ 77°F [±0.2°C @ 25°C]
Materials	Cable Gland	plug adapter: PA66, black nut: PA6, black
	Housing	cover: lexan, Belimo orange NCS S0580-Y6OR base: lexan, Belimo orange NCS S0580-Y6OR seal: 0467 NBR70, black
Safety Data	Ambient Humidity	85% RH non-condensing
	Ambient Temperature	-30°F to 120°F [-35°C to 50°C]
	Medium Temperature	PT.., Ni.. : -60°F to 320°F [-50°C to 160°C] NTC.. : -60°F to 300°F [-50°C to 150°C]
	Housing Surface Temperature (Tsurf)	max. 195°F [90°C]
	Protection Class IEC/EN	III protective extra-low voltage (pelv)
	Protection Class UL	UL Class 2 Supply
	EU Conformity	CE Marking
	Certification IEC/EN	IEC/EN 60730-1 and IEC/EN 60730-2-9
	Certification UL	pending
	Degree of Protection IEC/EN	IP65
	Degree of Protection NEMA/ UL	NEMA 4X
	Quality Standard	ISO 9001
	Weight	0.095 lbs

Safety Notes


The installation and assembly of electrical equipment should only be performed by authorized personnel.

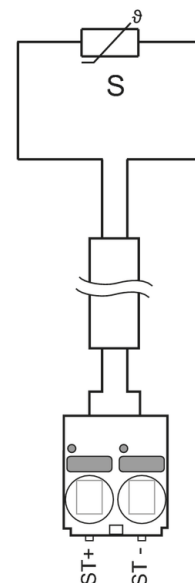
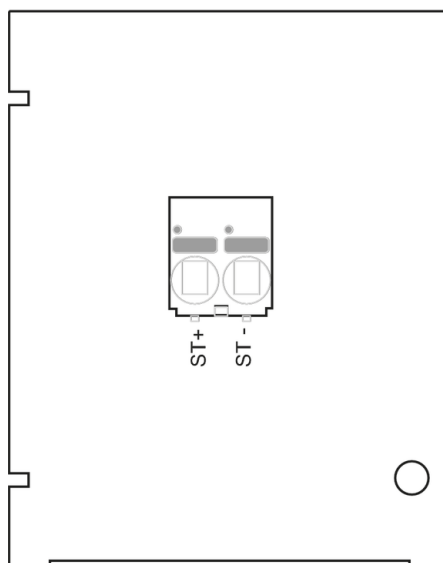
The product should only be used for the intended application. Unauthorized modifications are prohibited! The product must not be used in relation with any equipment that in case of a failure may threaten, directly or indirectly, human health or life or result in danger to human beings, animals or assets. Ensure all power is disconnected before installing. Do not connect to live/operating equipment.

Please comply with

- Local laws, health & safety regulations, technical standards and regulations
- Condition of the device at the time of installation, to ensure safe installation
- This data sheet and installation manual

Accessories

	Scope of Delivery	mounting clip screws adhesive foil cable gland nut conduit 1/2" NPT	
	Optional accessories air	Description	Type
		mounting flange 0.24" [6 mm], plastic (adjustable), up to max. 248°F [120°C]	A-22D-A03
	Recommended accessories water	mounting flange mounting flange brass, up to max. 500°F [260°C]	A-22D-A05
		Description	Type
		thermowell pocket stainless steel (fabricated), 2" [50 mm], 1/2" NPT, wrench size 3/4"	A-22P-A05
		thermowell pocket brass (fabricated), 2" [50 mm], 1/2" NPT, wrench size 3/4"	A-22P-A17
		thermowell pocket stainless steel (machined), 2" [50 mm], 1/2" NPT, wrench size 3/4"	A-22P-A36
		thermowell pocket stainless steel (fabricated), 4" [100 mm], 1/2" NPT, wrench size 3/4"	A-22P-A07
		thermowell pocket brass (fabricated), 4" [100 mm], 1/2" NPT, wrench size 3/4"	A-22P-A19
		thermowell pocket stainless steel (machined), 4" [100 mm], 1/2" NPT, wrench size 3/4"	A-22P-A37
		thermowell pocket stainless steel (fabricated), 6" [150 mm], 1/2" NPT, wrench size 3/4"	A-22P-A09
		thermowell pocket brass (fabricated), 6" [150 mm], 1/2" NPT, wrench size 3/4"	A-22P-A21
		thermowell pocket stainless steel (machined), 6" [150 mm], 1/2" NPT, wrench size 3/4"	A-22P-A38
		thermowell pocket stainless steel (fabricated), 8" [200 mm], 1/2" NPT, wrench size 3/4"	A-22P-A11
		thermowell pocket brass (fabricated), 8" [200 mm], 1/2" NPT, wrench size 3/4"	A-22P-A23
		thermowell pocket stainless steel (machined), 8" [200 mm], 1/2" NPT, wrench size 3/4"	A-22P-A39
		thermowell pocket stainless steel (fabricated), 12" [300 mm], 1/2" NPT, wrench size 3/4"	A-22P-A13
		thermowell pocket brass (fabricated), 12" [300 mm], 1/2" NPT, wrench size 3/4"	A-22P-A25
		thermowell pocket stainless steel (fabricated), 18" [450 mm], 1/2" NPT, wrench size 3/4"	A-22P-A15
		thermowell pocket brass (fabricated), 18" [450 mm], 1/2" NPT, wrench size 3/4"	A-22P-A27
		syringe thermal contact fluid	A-22P-A44
		Compression fitting with cutting ring, stainless steel, G 1/4" (external thread) for 0.24" [6 mm]	A-22P-A45

Wiring Diagram

Dimensions
