

**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	Probe Length	Probe Diameter	Weight
	Passive Temperature			
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]	-

<b>01DT-5QP</b>	NTC20k	8" [200 mm]	0.24" [6 mm]	-
<b>01DT-5QR</b>	NTC20k	12" [300 mm]	0.24" [6 mm]	-
<b>01DT-5QT</b>	NTC20k	18" [450 mm]	0.24" [6 mm]	-

**Technical Data**

<b>Electrical Data</b>	Cable Entry	cable gland PG11 Ø6 to 10 mm, with strain relief Ø6 to 8 mm, 1/2" conduit adapter included
<b>Functional Data</b>	Output Signal Passive Temperature	PT100 PT1000 Ni1000 (JCI) NTC10k2 NTC10k3 NTC20k
	Media	air water
<b>Measuring Data</b>	Measured Values	temperature
	Measuring range temperature	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	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]
<b>Materials</b>	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
<b>Safety Data</b>	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	cULus acc. to UL60730-1A/-2-9, CAN/CSA E60730-1:02/-2-9, CE acc. to 2004/108/EC and 2006/95/EC, NEMA 4X, IP65, UL Enclosure Type 4X
	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.

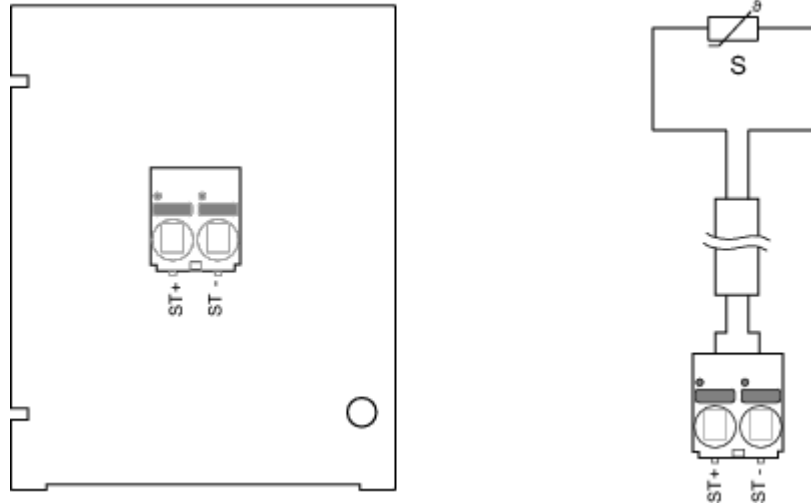
Please comply with

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

Wiring Diagram



Dimensions

