

Cable Temperature Sensor

Active sensor (4 to 20 mA) for measuring the temperature in pipe and air applications. Incorporates a stainless steel probe and plenum rated cable.





Type Overview							
	Туре	Output Signal Active Temperature	Cable Length	Probe Length	Probe Dian	neter	
	22CT-54H	420 mA	6.5 ft. [2 m]	2" [50 mm]	0.24" [6 n	nm]	
Technical Data							
Electrical Dat	Power Supply DC		1524 V, ±10%, 0.5 W				
	Electrical Con	Cable Entry Cable Specification		removable spring loaded terminal block max. 11 GA [2.5 mm²]			
	Cable Entry			cable gland PG11 Ø6 to 10 mm, with strain relief Ø6 to 8 mm, 1/2" conduit adapter included			
	Cable Specific			1 pair shielded plenum cable, 22AWG tinned copper, green jacket, -40°F to 300°F (-40°C to 150°C), 300 V			
Functional Dat	Multirange	Multirange Output Signal Active Note Media		8 fields selectable			
	Output Signal			current output: max. 500 Ω load			
	Media			air water			
Measuring Dat	Measured Val	Measured Values		erature			
	Measuring rai	nge temperature	Active sensor: range selectable Attention: max. measuring temperature is restricted by max. medium temperature (see Safety data)				
			Settin	• •	range [°F]	Factor	
			\$0 \$1 \$2 \$3 \$4	-50°C to 50°C -10°C to 120°C 0°C to 50°C 0°C to 250°C -15°C to 35°C	0°F to 250°F 40°F to 140°F 30°F to 480°F	: :	
			S5 S6 S7	0°C to 100°C -20°C to 80°C 0°C to 160°C	40°F to 240°F 40°F to 90°F	=	
	Accuracy tem	Accuracy temperature active		±0.5 °C @ 21 °C			



	Sensor Datasheet	22CT-54H	
Materials	Cable Gland	PA6, black	
	Mounting Plate	lexan, silvergray RAL7001	
	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	-60°F to 245°F [-50°C to 120°C]	
	Housing Surface Temperature (Tsurf)	max. 160°F [70°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	

Safety Notes



Weight

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.

0.16 lbs

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

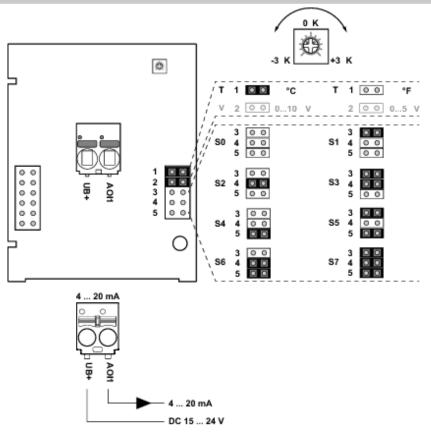


Accessories

Scope of Delivery	mounting plate dowel screws cable gland nut conduit 1/2" NPT		
Optional accessories air		Туре	
Mounting flange 0.24" [6 mm], plastic (adjustable), up to max. 24		A-22D-A03	
	Mounting flange 0.24" [6 mm], brass, up to max. 500°F [260°C]	A-22D-A05	
Recommended accessories water	Description	Туре	
	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	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A-22P-A27	
	, ,	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



the adjustment of the measuring ranges is made by changing the bonding jumpers the output value in the new measuring range is available after 2 seconds

Setting	range [°C]	range [°F]	Factory setting
S0	-50°C to 50°C	-30°F to 130°F	
S1	-10°C to 120°C	0°F to 250°F	
S2	0°C to 50°C	40°F to 140°F	
S3	0°C to 250°C	30°F to 480°F	
S4	-15°C to 35°C	0°F to 100°F	
S5	0°C to 100°C	40°F to 240°F	
S6	-20°C to 80°C	40°F to 90°F	
S7	0°C to 160°C	0°F to 150°F	~

Dimensions

