7000 Series

Compact High Pressure Temperature Sensor

- Continuous Output for Temperatures to 212°F (100°C)
- Pressures to 8,700 PSI (600 bar)
- 4-20A Output Accommodates Numerous Systems

7000 Series sensors provide continuous temperature measurement of process fluids typically found in hydraulic and mobile vehicle applications.

High pressure capability and product packaging make it ideal for use in harsh environments.

The sensor has a 4-20mA output, with a variety of industry-standard electrical connections to simplify installation into a broad range of applications and systems.

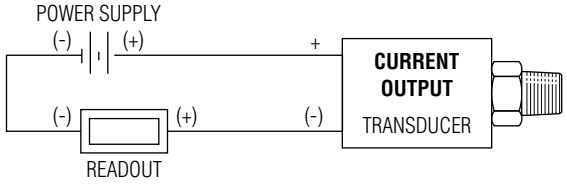
Specifications

Performance	
Accuracy	±1.5% Full Scale
Ambient Temperatures	-13°F to +176°F (-25°C to +80°C)
Storage Temperatures	-40°F to +257°F (-40°C to +125°C)
Measurement Temperatures	See under "How to Order," last page
Measurement Rise Time	T50 = 10 Sec, T90 = 30 Sec (Water)
Operating Pressure, Max.	8,700 PSI (600 Bar)
Proof Pressure	13,050 PSI (900 Bar)
Mechanical Configuration	
Pressure Port	See under “How to Order,” next page
Wetted Parts	17-4 pH Stainless Steel
Electrical Connection	See under “How to Order,” next page
Enclosure	IP67
Vibration	BSEN 60068-2-6 (FC) BSEN 60068-2-64 (FH)
Shock	BSEN 60068-2-2n
Approvals	CE, RoHS
Weight	1.23 to 1.9 ounces (35-53 grams). Configuration dependant

Output Specifications

Current Output Units	
Output	4-20 mA
Supply Voltage (Vs)	8-36 Vdc
Max Load Resistance	(Supply Voltage - 8) x 50 ohms

Wiring Diagram



EMC Specifications

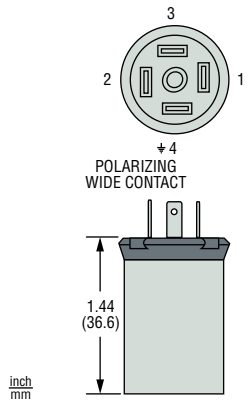
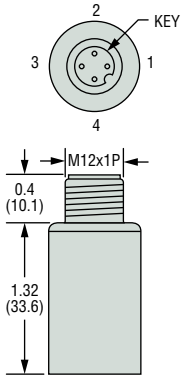
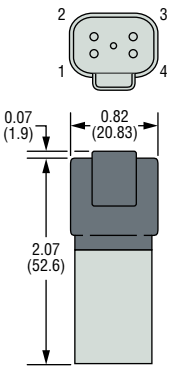
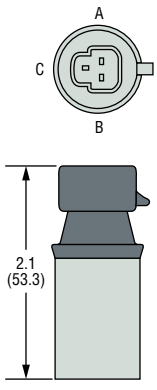
Emissions Tests: EN61326-1:2006 and EN61326-2-3:2006

Test Standard	Test
EN55011:2007	Conducted Emissions
EN55011:2007	Radiated Emissions

Immunity Tests: EN61326-1:2006 and EN61326-2-3:2006

Test Standard	Test
EN61000-4-2:1995 + A1 + A2	Electrostatic Discharge
EN61000-4-3:2006	Radiated Immunity
EN61000-4-4:2004	Fast Burst Transients
EN61000-4-6:2006	Conducted RF Immunity

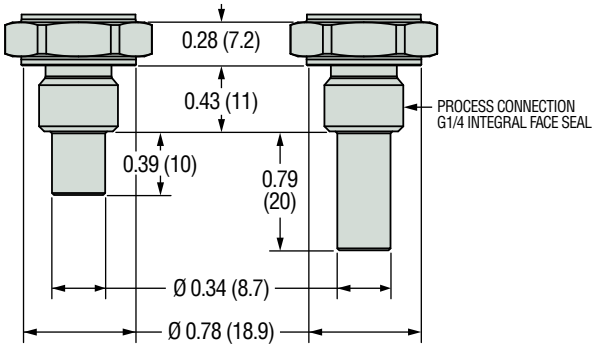
Electrical Connector

DIN 9.4 mm	M12 x 1P	Deutsch DT04-4P	Packard MetriPack
			

	Code B		Code E	Code 8		Code 9
Pin #	Current Mode		Current Mode	Current Mode	Pin ID	Current Mode
1	No Connect		Supply	Return	C	No Connect
2	Supply		No Connect	Supply	A	Return
3	No Connect		Return	No Connect	B	Supply
4	Return		No Connect	No Connect	—	—

Process Connection

10mm Probe **20mm Probe**



How to Order

Use the **bold** characters from the chart below to construct a product code

70 **XX** **B** **05** **XXX** **X** **000** **00**

Series
- **70** - 7000 Series

Temperature Range
- **01** - -13°F to +212°F (-25°C to +100°C)
- **02** - -40°F to +176°F (-40°C to +80°C)

Output
- **B** - 4-20 mA

Process Thread
- **05** - G1/4˝A Integral Face Seal

Probe Length
- **010** - 10mm
- **020** - 20mm

Electrical Connection
- **B** - Industrial DIN 9.4 mm
- **E** - M12 x 1P
- **8** - Deutsch DT04-4P
- **9** - Packard MetriPack

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