



DESCRIPTION

The pressure transmitter T200/T201 series is designed for use in many mobile and industrial applications. Its compact size, IP67 integrated connectors and stainless steel housing makes it well suited for dependable operation in the field. Featuring EMC/EMI protections, vibration resistance and shock resistance, our transmitters can withstand adverse environments.

These transmitters employ ceramic piezoresistive pressure measuring cells. The use of ceramic allows for an output that is linear with negligible hysteresis that remains consistent throughout its lifetime. The thermal errors can be compensated to standard (T200) or extended (T201) temperature ranges.

The T200/T201 is available in a large range of configurations including process and electrical connections, pressure ranges, and output signals. Its size, specifications and price make it well suited for OEM applications. Product customization is available.

FEATURES

- Piezoresistive Ceramic Sensor
- ASIC Signal conditioning

APPLICATIONS

- Industrial Equipment
- Safety Monitoring
- Mobile Equipment

Specifications

Accuracy*	+/- 0.5 % FS*	
Full Scale Pressure Range	15 to 7,500 PSI (1 BAR to 517 BAR)	
Proof Pressure	140% to 200% FS based on range (consult factory)	
Burst Pressure	180% to 400% FS based on range (consult factory)	
Long Term Drift	<0.3% FS @ 77°F (25°C)	
Zero Error	0.75% FS	
Span Error	0.75% FS	
Thermal Error	≤100 psi: 0.01% FS/°F (0.018% FS/°C) 101 psi to 400 psi: 0.009% FS/°F (0.016% FS/°C) 401 psi to 1000 psi: 0.011% FS/°F (0.019% FS/°C) 1001 psi to 3000 psi: 0.012% FS/°F (0.021% FS/°C) 3001 psi to 7500 psi: 0.018% FS/°F (0.028% FS/°C)	
Compensated Temperature	T200 Series: 32°F to 185°F (0°C to 85°C) T201 Series: -40°F to 257°F (-40°C to 125°C)	
Operating Temperature	-40°F to 257°F (-40°C to 125°C)	
Storage Temperature	-40°F to 255°F (-40°C to 125°C)	
Process Connection	SS304	
Wetted Materials	Ceramic Al ₂ O ₃ NBR (Standard) or Optional: FKM,HNBR,EPDM	
Vibration	10g (20-2000Hz) for ≤ 58 PSI (4 BAR) 20g (20 - 500Hz) for ranges > 58 PSI (4 BAR)	
Shock	50g (11ms)	
Supply Voltage	Output	Supply
	4 - 20mA	8 - 30 VDC
	0 - 10V	12.5 - 30 VDC
	0.5 - 4.5V (ratiometric)	4.5 - 5.5 VDC
	0.5 - 4.5V	9 - 30 VDC
	0 - 5V	9 - 30 VDC
	1 - 5V	9 - 30 VDC
	1 - 6V	9 - 30 VDC
	0.25 - 10.25 V	12 - 30 VDC
	* Other supply voltage and outputs available upon request	
Current Consumption	4-20mA : ≤23mA 0.5-4.5V Ratiometric: 3mA All other models listed: 7mA	
Protection	Overvoltage, Short Circuit, Reverse Polarity Protection	
Response Time	<1ms	
Ingress Protection	IP67 (IP65 for M2 Electrical Connection)	
Compliance	IEC/EN 61000-4-3(2006) 100V/m 80-1000MHz IEC/EN 61000-4-4(2004) Class 3 IEC/EN 61000-4-6(2006) 3Vrms 0.15-80MHz ROHS	
Weight	0.15 lbs (0.07kg)	

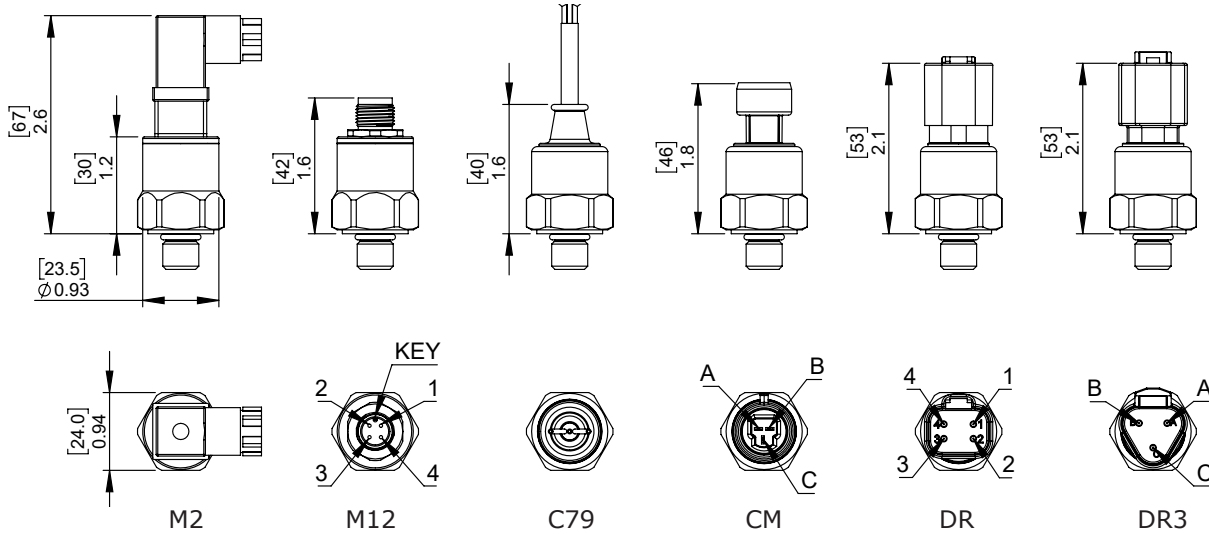
* Accuracy includes:
 Non-repeatability
 Hysteresis
 Terminal-based non linearity

**Temperature data is dependent on seal material selection. Please refer to page 65 for seal temperature range

T200 / T201



Dimensions



Connector	Output				
	4 - 20 mA		Voltage		
	Supply +	Supply -	Supply +	Common	Output +
M2	1	2	1	2	3
M12	1	3	1	3	4
C79 / C158	Red	Black	Red	Black	White
DR	2	1	2	1	4
DR3	A	B	A	B	C
CM	B	A	B	A	C

Ordering Information

T200 - **1** **0100P** - **2** **G** - **3** - **4** **M2** - **5** **4M** - **6** **N** - **7** **T1** - **8 (Optional)** **SR**

Model:	Pressure Range:	Reference:	Output:	Electrical Connection:	Process Connection:	Seal Material:	Accuracy:
T200 Compensated Temperature Range 32°F to 185°F (0°C to 85°C)	0015P - 15 PSI 0030P - 30 PSI 0100P - 100 PSI 0150P - 150 PSI 0300P - 300 PSI 0400P - 400 PSI 0600P - 600 PSI 1000P - 1000 PSI 1500P - 1500 PSI 3000P - 3000 PSI 5000P - 5000 PSI 7500P - 7500 PSI **	A - Absolute G - Gauge S - Sealed	2 - 4 -20 mA (2 wire) 3 - 0 - 10 V (3 wire) 4 - 0.5 - 4.5 V (ratiometric) 5 - 0-5 V (3 wire) 6 - 1 - 5 V (3 wire) 7 - 0.5 - 4.5 V (3 wire) 8 - 1 - 6V (3 wire) 9 - 0.25 - 10.25 V (3 wire)	M2 - DIN 43650C (Mini DIN, 9.4mm) M12 - M12, 4 pin C79 - Shielded Cable 79 inches (2 meter) DR - Deutsch Receptacle DT04-4P DR3 - Deutsch Receptacle DT04-3P CM - Packard, Metripack 150 Series (P2S)	2M - 1/8" NPT male 4M - 1/4" NPT male 4G - 1/4" BSPP male, G1/4 , Type E 4S - 7/16-20 SAE male, with O-ring seal 6S - 9/16-18 SAE male, with O-ring seal	N - NBR (Standard) V - VITON® H - HNBR E - EPDM	T1 - +/- 0.5% FS Options: SR - Snubber VE - Vented†

*Other material and options available upon request.
Custom design available. Please consult factory.

** 7500 psi (500 BAR) range is not available with NPT threads.

† VE option is recommended for applications using gaseous media.

Not all configurations are available. Please consult sales representative.