



## DESCRIPTION

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

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

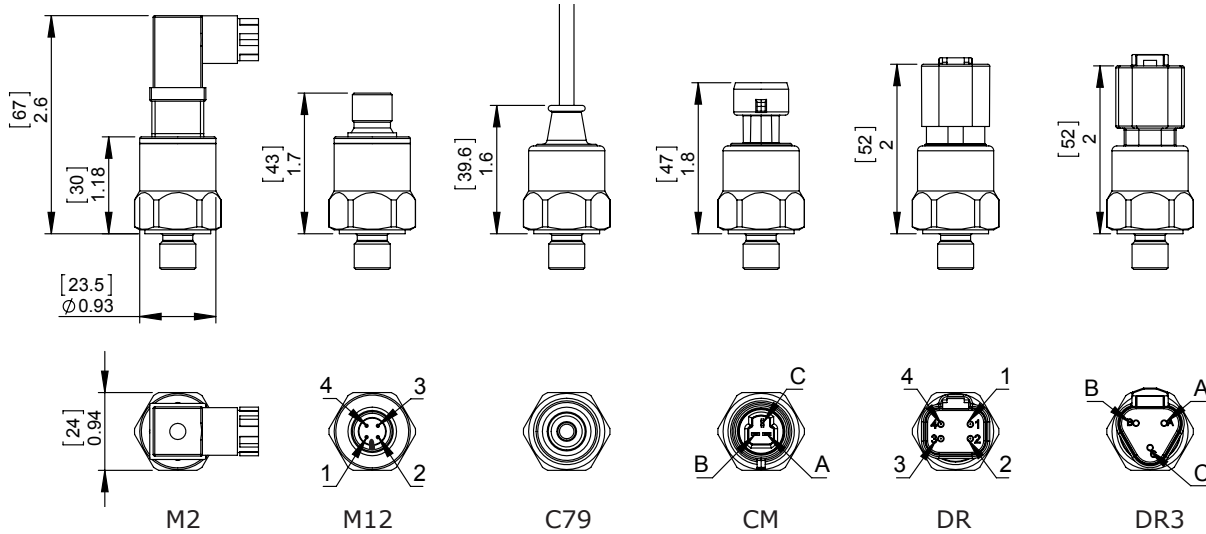
Accuracy*	+/- 0.5 % FS*	
Pressure Range	0 to 7,500 PSI (517 BAR)	
Proof Pressure	140% to 200% FS based on range (consult factory)	
Burst Pressure	180% to 400% FS based on range (consult factory)	
Long Term Drift	<0.3% FS @ 77°F (25°C)	
Zero Error	0.75% FS	
Span Error	0.75% FS	
Thermal Error	7.5 psi ≥ 100 psi: 0.01% FS/°F (0.018% FS/°C) 100 psi > 400 psi : 0.009% FS/°F (0.016% FS/°C) 400 psi ≥ 1000 psi: 0.011% FS/°F (0.019% FS/°C) 1000 psi > 3000 psi: 0.012% FS/°F (0.021% FS/°C) 3000 psi ≥ 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 275°F (-40°C to 125°C)	
Process Connection	SS304	
Wetted Materials	Ceramic Al <sub>2</sub> O <sub>3</sub> 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 - 6V	9 - 30 VDC
	0.25 - 10.25 V	12 - 30 VDC
* Other supply voltage 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 on linearity

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

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

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