

Model 3550

Compact Low Pressure OEM Pressure Transducer

Setra's Model 3550 MEMS pressure sensor is designed for OEMs who require high performance, reliability and stability for absolute, gauge and compound measurements at an affordable price. The 3550 offers exceptional ±0.25% FS accuracy in pressure ranges from 15 PSI to 250 PSI in a small, 316L stainless steel package designed for harsh environments. The Model 3550 offers a variety of different outputs, pressure connectors and electrical connectors to satisfy the most challenging application requirements.

316L SS Design

The sensor and all wetted materials are manufactured using 316L stainless steel. The design of the sensor gives the 3550 high corrosion resistance for the harsh conditions of the alternative fuels market. The unit is calibrated to an accuracy of $\pm 0.25\%$ FS across the entire pressure range offering.

Pressure Flexibility

The Model 3550 design incoporates gauge, absolute and compound pressure datums all in the same package. Pressure ranges available from 15 PSI to 250 PSI, making it ideal for OEM applications of all types.

Flexibility for Many Applications

The 3550 transducer offers many pressure and electrical fittings covering many installation configurations, minimizing additional engineering time to accommodate the sensor, leading to quicker project completion and faster time to market.



- 316L SS Wetted Parts
- Small Footprint
- High Price-to-Performance Ratio

Model 3550 Features:

- ±0.25% FS Accuracy
- Pressure Ranges from 0-15 PSI to 0-250 PSI
- Low Cost For High Volume OEM Installers
- Absolute, Gauge and Compound Pressure Ranges
- Corrosion Resistant Etched Label
- Many Electrical and Mechanical Options

Applications:

- Oil and Gas
- Medical
- Emissions Monitoring
- Harsh Chemical
- Transformer/Smart Grid Technology

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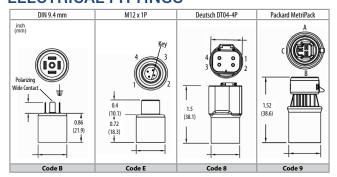
ORDERING INFORMATION

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Model		Ou	itput	Pres	sure Ra	nge		Pre	essure Datum	Pre	essure Port	El	ectrical Conn.	O	ptional Restrictor	
3550=Model 35	550	В	4-20 Ma	0000	0 bar1	000P	0 PSI ¹	G	Gauge	01	G1/4" External	В	Industrial DIN 9.4mm	R	Restrictor	
		N	0.5-4.5 V	0001	1 bar	015P	15 PSI	Α	Absolute	02	1/4"-18 NPT External	E	M12 x 1	0	No Restrictor	
		S	0-10 V	01B6	1.6 bar	030P	30 PSI	C	Compound ²	04	7/16-20 UNF w/ 37° Flare	8	Deutsch DT04-4P			
		C	1-6 V	02B5	2.5 bar	050P	50 PSI			05	G1/4" A Integral Face Seal	9	Packard MetriPack ³			
		P	1-10 V	0004	4 bar	100P	100 PSI			08	1/8″-27 NPT External		ompound vacuum gauge only		IS to 0 PSIG or -1 to 0 barG are range on the low end to -15 PSIG	or -1 harG respectively
		T	0.5-4.5 V Ratiometric	0006	6 bar	150P	150 PSI			0L	M12 x 1.5 - 6g		ompound versions measure G	auge p	ressure only. (eg15 to 100 PSIG)	or - r bard respectively.
		Н	1-5 V	0010	10 bar	200P	200 PSI			OS	G1/8"-27 External	3.0	ompatible with Ratiometric O	ıtput (Only; Code T.	
		R	0-5 V	0016	16 bar	250P	250 PSI	Orderii	ng Example: 3550B015PA02	ER00 =	Model 3550, 4-20mA Output, 0-15 ps	- ia, 1/4	NPT Fitting, M12 x 1 Electrical	Conne	ctor with Restrictor Installed in Pres	sure Port

EMC SPECIFICATIONS

Emissions Tests: EN61326-1:2006 and EN61326-2-3:2006					
Test Standard	Test				
EN55011:2009 + A1	Radiated Emissions				
Immunity Tests: EN61326-1:2006 and EN61326-2-3:2006					
Test Standard	Test				
EN6100-4-2:2009	Electrostatic Discharge				
EN6100-4-3:2006 + A2	Radiated Immunity				
EN6100-4-4:2012	Fast Burst Trasients				
EN6100-4-6:2009	Conducted RF Immunity				

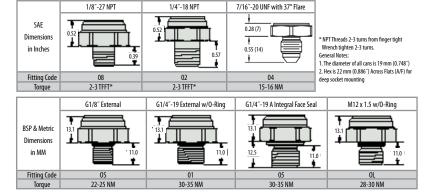
ELECTRICAL FITTINGS



GENERAL SPECIFICATIONS

Performance	e Data	Mechanical	Configuration			
Long Term Drift	< 0.2% FS/YR	Pressure Port	See under "How to Order"			
Accuracy (BSFL)	0.25% FS	Wetted Parts	316L Stainless Steel			
Thermal Error, Max.	±1% max./176°F (80°C)	Electrical Conn.	See under "How to Order"			
Compensated Temp.	-4°F to +212°F (-20°C to +100°C)	Enclosure	IP67 (IP65 for electrical codes B)			
Operating Temp.	-40°F to +257°F (-40°C to +125°C)	Vibration	BSEN 60068-2-6 (FC) BSEN 60068-2-64 (FH)			
Zero Tolerance, Max.	±0.5% of span max.	Shock	BSEN 60068-2-27 (Ea)			
Span Tolerance, Max.	±1% of span max.	Approvals	CE, PED, RoHS			
Fatgue Life	Designed for more than 100M Cycles	Weight	1.23 to 1.9 ounce (35 to 52 grams) Configuration dependent.			
Input		Voltage Output Units				
Pressure Range	0-250 psi (0-16 bar)	Output	0 V min. to 10V max. See under "How to Order"			
Proof Pressure	2x Nominal Range	Supply Voltage (Vs)	2 Volts above full scale to 30 VDC (24 VDC max. above 230°F (110°C) applications). Source and Sinks 8mA			
Burst Pressure	3x Nominal Range	Current Output Units				
Ratiometric	Output Units	Output	4-20 mA			
Output	0.5 to 4.5 VDC	Supply Voltage (Vs)	10-30 VDC (24 VDC max. above 230°F (110°C) applications)			
Supply Voltage (Vs)	5 VDC +10%	Max. Load Resistance	(Supply Voltage - 10) x 50 ohms			

PRESSURE FITTINGS



MATING ELECTRICAL CONNECTORS

Part Number	Description	For Use on Elect. Code #
557230	MINI DIN Connector, Strain Relief (with drive screw & gasket)	В
557703-01M0	M12 Cord Set - 1 Meter (Red 1, Green 2, Blue 3, Yellow 4)	E
557703-03M0	M12 Cord Set - 3 Meters (Red 1, Green 2, Blue 3, Yellow 4)	E
557703-04M0	M12 Cord Set - 4 Meters (Red 1, Green 2, Blue 3, Yellow 4)	E
557703-05M0	M12 Cord Set - 5 Meters (Red 1, Green 2, Blue 3, Yellow 4)	E
	Recommended Mating Parts (Deutsch p/n: Housing Plug DT064S-P012; Wedge W4S-P012; SOckets 4X 0462-201-1631	8
224153	Deutsch Cord Set 3'Long (18 AWG PVC Cable -Black 1, Red 2, Green 3, White 4)	8
	Recommended Mating Parts (Delphi Packard MetriPack p/n: Body 12065286; Seal 12052893; Consult Delphi for Contacts)	9
557	Packard Mate Kit	9
581	Packard Cord Set 3'Long (24 AWG PVC Cable - White 1, Black 2, Red 3)	9
582	Packard Cord Set 63' Long (24 AWG PVC Cable - White 1, Black 2, Red 3)	9