

Датчики давления MMS серии 3500

Технические характеристики

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3500 Series

Compact Low Pressure OEM Pressure Transmitters

- ▶ 0–5 to 0–600 psi pressure ranges (0–0.35 to 0–40 bar)
- ▶ Choice of outputs, electrical connections and pressure ports
- ▶ Operating temperature up to 257°F (125°C)

For OEMs that need consistent high levels of performance, reliability and stability the 3500 Series units offer a small package size with all stainless steel wetted parts at an unbeatable price performance ratio. A wide choice of electrical outputs as well as both electrical and pressure connections means the unit is suitable for most applications without modification. The compact construction of the 3500 Series makes it ideal for installation where space is at a premium.

Specifications

Input	
Pressure Range	0–5 to 0–600 psi (0–0.35 to 0–40 bar)
Proof Pressure	2×
Burst Pressure	3×
Performance	
Long Term Drift	<0.2% FS/YR
Accuracy	0.25% FS
Thermal Error, Max.	±1% / 176°F (80°C)
Compensated Temperatures	–4°F to +212°F (–0°C to +100°C)
Operating Temperatures	–40°F to +257°F (–40°C to +125°C)
Zero Tolerance, Max.	±0.5% of span
Span Tolerance, Max.	±0.5% of span
Response Time	≤1.5 msec
Fatigue Life	Designed for more than 100 M cycles
Mechanical Configuration	
Pressure Port	See under “How to Order,” last page
Wetted Parts	316L Stainless Steel
Electrical Connection	See under “How to Order,” last page
Enclosure	IP67
Vibration	BSEN 60068-2-6 (FC) BSEN 60068-2-64 (FH)
Shock	BSEN 60068-2-27 (Ea)
Approvals	CE, PED, RoHS, UL Recognized File # EX16137
Weight	1.23 to 1.9 ounces (35-53 grams). Configuration dependant

Individual Specifications

Voltage	
Output	0V min. to 10V max. See under “How to Order,” last page
Supply Voltage (Vs)	2 Volts above full scale to 30 VDC (24 VDC, max. above 230°F (110°C) applications) 8-30 VDC for output Options H, N, and R
Source and Sinks	8 mA
Current	
Output	4–20 mA
Supply Voltage (Vs)	10–30 VDC (24 VDC, max. above 230°F (110°C) applications)
Maximum Load Resistance	(Supply Voltage – 10) × 50 Ω
Ratiometric	
Output	0.5–4.5 V
Supply Voltage (Vs)	5 VDC ±10%



EMC Specifications

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

EN55011:2009 + A1 Radiated Emissions

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

EN61000-4-2:2009 Electrostatic Discharge

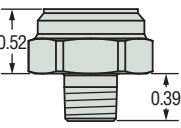
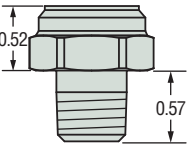
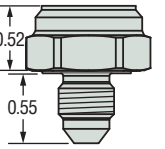
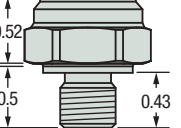
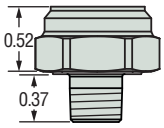
EN61000-4-3:2006 + A2 Radiated Immunity

EN61000-4-4:2012 Fast Burst Transients

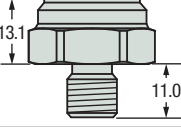
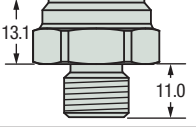
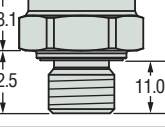
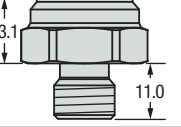
EN61000-4-6:2009 Conducted RF Immunity

Pressure Ports

SAE

	1/8-27 NPT	1/4-18 NPT	7/16-20 UNF with 37° Flare	7/16-20 UNF	1/8-27 NPTF
Dimensions in Inches					
Fitting Code	08	02	04	1J	4D
Torque	2-3 TFFT*	2-3 TFFT*	15-16 NM	18-20 NM	2-3 TFFT*

BSP & Metric

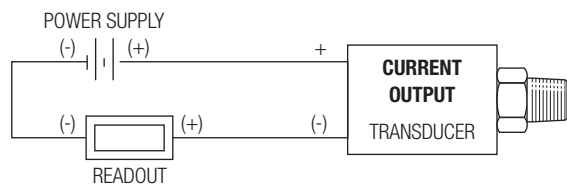
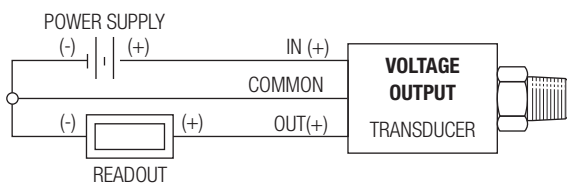
	G 1/8 External	G 1/4 External	G 1/4 A Integral Face Seal	M12 × 1.5
Dimensions in MM				
Fitting Code	0S	01	05	0L
Torque	22-25 NM	30-35 NM	30-35 NM	28-30 NM

* NPT Threads 2-3 turns from finger tight. Wrench tighten 2-3 turns.

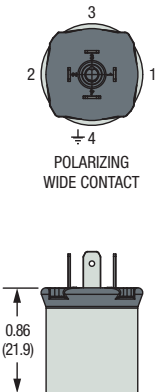
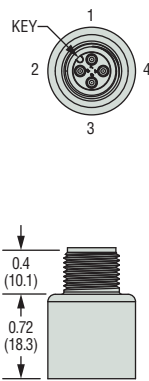
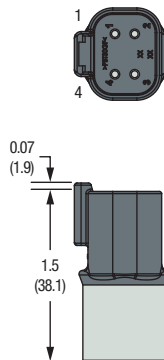
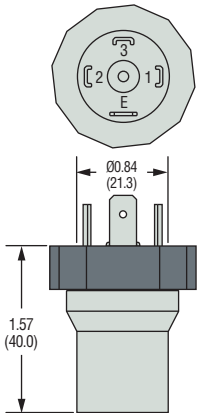
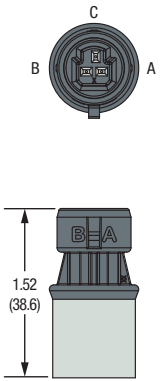
General Notes:

1. The diameter of all cans is 19 mm (0.748")
2. Hex is 22 mm (0.886") Across Flats (A/F) for deep socket mounting
3. O-rings are not included except for Port option 05

Wiring Diagram



Electrical Connector

DIN 9.4 mm			M12 × 1P			Deutsch DT04-4P			DIN 43650A			Packard Metri-Pack					
																	
Code B			Code K			Code E			Code 8			Code G			Code 9		
Pin #	Voltage Mode	Current Mode	Voltage Mode	Current Mode	Voltage Mode	Current Mode	Voltage Mode	Current Mode	Voltage Mode	Current Mode	Voltage Mode	Current Mode	Pin ID	Voltage Mode	Note		
1	V _{out} (pressure)	No Connect	V _{supply}	Supply	V _{supply}	Supply	Ground	Return	V _{supply}	Supply			C	V _{out} (pressure)	Metri-Pack connector may be used with 0.5–4.5 V Ratiometric and 4–20 mA only.		
2	V _{supply}	Supply	Ground	Return	V _{out} (pressure)	No Connect	V _{supply}	Supply	Ground	Return			A	Ground			
3	No Connect	No Connect	V _{out}	No Connect	Ground	Return	No Connect	No Connect	V _{out}	No Connect			B	V _{supply}			
4	Ground	Return	No Connect	No Connect	No Connect	No Connect	V _{out} (pressure)	No Connect	No Connect	No Connect			—	—			

Mating Connectors

Part Number	Description	For Use on Elect. Code #
557230	MINI DIN Connector, Strain Relief (with drive screw & gasket)	B and K
557254	Large DIN 43650A	G
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 4× 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 Metri-Pack p/n: Body 12065286; Seal 12052893. Consult Delphi for Contacts)	9
218760	Packard Mate Kit	9
223974	Packard Cord Set 3' Long (24 AWG PVC Cable – White 1, Black 2, Red 3)	9
223975	Packard Cord Set 6' Long (24 AWG PVC Cable – White 1, Black 2, Red 3)	9
227987	Packard Cord Set 14.75' Long (22 AWG PVC Cable - White 1, Black 2, Red 3)	9
220492	Packard Mate - 12' Flying Leads – 3 Conductor PVC 18 AWG	9
222976	Packard Mate - 18' Flying Leads – 3 Conductor PVC 18 AWG	9
220797	Packard Mate - 24' Flying Leads – 3 Conductor PVC 18 AWG	9

How to Order

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

			3500	X	XXXX	X	XX	X	X	00	
Series											Optional Restrictor
Output											R - Restrictor 0 - No Restrictor
B - 4–20 mA N - 0.5–4.5 V S - 0–10 V	C - 1–6 V P - 1–10 V T - 0.5–4.5 V Ratiometric	H - 1–5 V R - 0–5 V									Electrical Connection
Pressure Range											B - Industrial DIN 9.4 mm E - M12 × 1 G - DIN 43650A K - Industrial DIN (Alternative Pinout) 8 - Deutsch DT04-4P 9 - Packard Metri-Pack ³
000P - 0 psi ¹ 05P0 - 5 psi 010P - 10 psi 015P - 15 psi 030P - 30 psi 050P - 50 psi 100P - 100 psi 150P - 150 psi 200P - 200 psi 250P - 250 psi 400P - 400 psi 600P - 600 psi	0000 - 0 bar ¹ 350M - 350 mbar 700M - 700 mbar 0001 - 1 bar 01B6 - 1.6 bar 02B5 - 2.5 bar 0004 - 4 bar 0006 - 6 bar 0010 - 10 bar 0016 - 16 bar 0025 - 25 bar 0040 - 40 bar										Pressure Port
Pressure Datum											08 - 1/8-27 NPT External 4D - 1/8-27 NPTF 02 - 1/4-18 NPT External 04 - 7/16-20 UNF External Flare (SAE #4, J514) 1J - 7/16-20 UNF External 01 - G 1/4 External 05 - G 1/4 External Soft Seal 0L - M12 × 1.5 - 6g 0S - G 1/8 External
G - Gauge	A - Absolute	V - Compound ²									

Notes:

- Compound only.
- Compound versions extend the pressure range on the low end to –15 psig or –1 barG respectively. Compound versions measure Gauge pressure only.
- Compatible with mA (Code B) or Ratiometric (Code T) Output Only.

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