

3300 Series

Compact Low Pressure OEM Pressure Transmitters

- ▶ 0 - 250 psi pressure ranges (0 to 16 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 3300 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 3300 series makes it ideal for installation where space is at a premium.

Specifications

Performance	
Long Term Drift	0.2% FS/YR (non-cumulative)
Accuracy	0.25% FS
Thermal Error	±1% max./176°F (80°C)
Compensated Temperatures	-4°F to +212°F (-20°C to +100°C)
Operating Temperatures	-40°F to +257°F (-40°C to +125°C)
Zero Tolerance	±0.5% of span, max.
Span Tolerance	±1% of span, max.
Fatigue Life	Designed for more than 100 M cycles
Mechanical Configuration	
Pressure Port	See under "How to Order," last page
Wetted Parts	17-4 PH Stainless Steel
Electrical Connection	See under "How to Order," last page
Enclosure	IP67 (IP65 for electrical codes B and K)
Vibration	BSEN 60068-2-6 (FC) BSEN 60068-2-64 (FH)
Shock	BSEN 60068-2-2n (Ea)
Approvals	CE, PED, RoHS
Weight	1.23 to 1.9 ounce (35 to 53 grams). Configuration dependant

Individual Specifications

Voltage Output Units	
Output	0 V min. to 10 V max. See under "How to Order," last page
Supply Voltage (Vs)	3 Volts above full scale to 30 Vdc (24 Vdc, max. above 230°F (110°C) applications). Source and Sinks 8mA
Current Output Units	
Output	4-20 mA
Supply Voltage (Vs)	10-30 Vdc (24 Vdc, max. above 230°F (110°C) applications)
Ratiometric Output Units	
Output	0.5 to 4.5 Vdc
Supply Voltage (Vs)	5 Vdc ±10%
Max Load Resistance	(Supply Voltage - 7.5) x 50 ohms



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

Pressure Capability

PSI

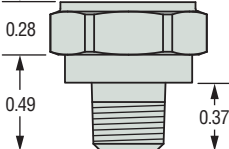
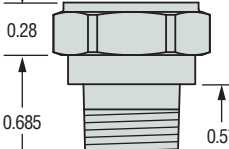
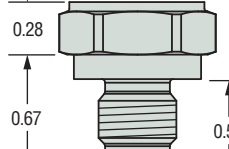
Pressure Range (PSI)	Burst Pressure (x Full Scale)	Proof Pressure
0-15	150	3x Proof Pressure
0-30	200	
0-50	125	
0-100	85	
0-150	50	
0-200	30	
0-250	30	

Bar

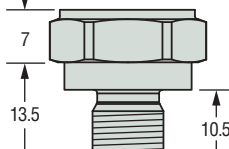
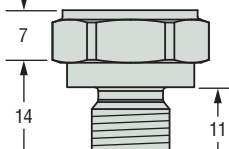
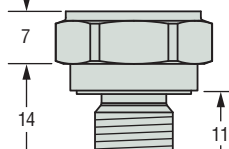
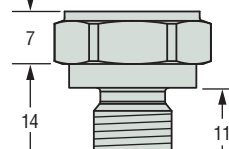
Pressure Range (Bar)	Burst Pressure (x Full Scale)	Proof Pressure
0-1	15	3x Proof Pressure
0-1.6	100	
0-2.5	200	
0-4	125	
0-6	85	
0-10	50	
0-16	30	

Pressure Ports

SAE

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

Metric

	G1/8"-27 External	G1/4" External	G1/4" A Integral Face Seal	M12 x 1.5 - 6g
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 (0.866") Across Flats (A/F) for deep socket mounting

Electrical Connector

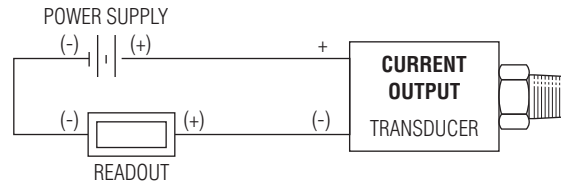
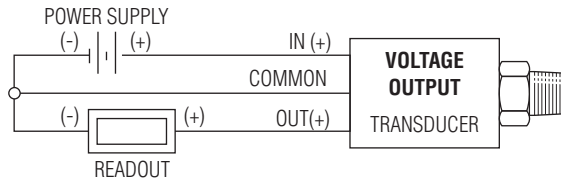
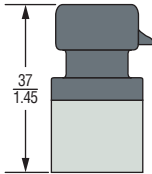
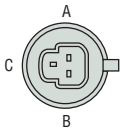
DIN 9.4 mm			M12 x 1P			Deutsch DT04-4P			Amp Superseal 1.5	
Code B		Code K		Code E		Code 8		Code 6		
Pin #	Voltage Mode	Current Mode	Voltage Mode	Current Mode	Voltage Mode	Current Mode	Voltage Mode	Current Mode	Voltage Mode	Note
1	V_{out} (pressure)	No Connect	V_{supply}	Supply	V_{supply}	Supply	Ground	Return	V_{out} (pressure)	Amp Superseal connectors may be used with 0.5-4.5V Ratiometric Output only.
2	V_{supply}	Supply	Ground	Return	V_{out} (pressure)	No Connect	V_{supply}	Supply	Ground	
3	No Connect	No Connect	V_{out} (pressure)	No Connect	Ground	Return	No Connect	No Connect	V_{supply}	
4	Ground	Return	No Connect	No Connect	No Connect	No Connect	V_{out} (pressure)	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
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 (AMP p/n: Housing 282087-1; Contacts 3X 183025-1; Seal 281934-1; Boot 880811-2)	6
557701	AMP Superseal Mate Kit	6
210729	AMP 3.5' Cable Cord Set – Clear Pos 1, Black Pos 2, Red Pos 3	6
210730	AMP 12" Flying Leads Cord Set – White Pos 1, Black, Red Pos 3	6
	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
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

Wiring Diagram

Packard MetriPack



Code 9

Pin ID	Voltage Mode	Note
C	V _{out} (pressure)	MetriPack connectors may be used with 0.5-4.5V Ratiometric Output only.
A	Ground	
B	V _{supply}	
—	—	

How to Order

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

Series	3300	X	XXXX	X	XX	X	0	00	
Output	B - 4-20 mA	C - 1-6 V	H - 1-5 V						Electrical Connection
	N - 0.5-4.5 V	P - 1-10 V	R - 0-5 V						B - Industrial DIN 9.4 mm
	S - 0-10 V	T - 0.5-4.5 V Ratiometric							E - M12 x 1
Pressure Range	01B0 - 1 bar	015P - 15 psi							K - Industrial DIN 9.4 mm (alternate pin out)
	01B6 - 1.6 bar	030P - 30 psi							6 - Amp - Superseal 1.5 Series ²
	02B5 - 2.5 bar	050P - 50 psi							8 - Deutsch DT04-4P
	04B0 - 4 bar	100P - 100 psi							9 - Packard MetriPack ²
	06B0 - 6 bar	150P - 150 psi							Pressure Port
	10B0 - 10 bar	200P - 200 psi							01 - G1/4" External
	16B0 - 16 bar	250P - 250 psi							02 - 1/4"-18 NPT
Pressure Datum	G - Gauge	A - Absolute ¹	V - Compound ¹						04 - 7/16"-20 UNF with 37° Flare
									05 - G1/4" A Integral Face Seal
									08 - 1/8"-27 NPT
									0L - M12 x 1.5 - 6g
									0S - G1/8"-27 External

Notes:
 1. Contact Gems for availability
 2. Compatible with Ratiometric Output Only; Code T

PRESSURE TRANSDUCERS