

3300 Series

Compact Low Pressure OEM Pressure Transmitters

- ▶ 0 to 16 bar pressure ranges (0 - 250 psi)
- ▶ Choice of outputs, electrical connections and pressure ports
- ▶ Operating temperature up to 125°C (257°F)

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./80°C (176°F)
Compensated Temperatures	-20°C to +100°C (-4°F to +212°F)
Operating Temperatures	-40°C to +125°C (-40°F to +257°F)
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, K and G)
Vibration	BSEN 60068-2-6 (FC) BSEN 60068-2-64 (FH)
Shock	BSEN 60068-2-2n (Ea)
Approvals	CE, PED, RoHS
Weight	35 to 53 grams (1.23 to 1.9 ounce). 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 110°C (230°F) applications).
Current Output Units	
Output	4-20 mA
Supply Voltage (Vs)	8-30 Vdc (24 Vdc, max. above 110°C (230°F) applications)
Max Load Resistance	(Supply Voltage - 8) x 50 ohms
Ratiometric Output Units	
Output	0.5 to 4.5 Vdc
Supply Voltage (Vs)	5 Vdc ±10%



Deutsch DT04-4P



DIN 9.4 mm

M12 x 1P



Packard MetriPack

Amp Superseal 1.5



DIN 43650A

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

Bar

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

PSI

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

Pressure Ports

Metric

	G1/8"-27 External	G1/4"-19 External	G1/4"-19 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

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

*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

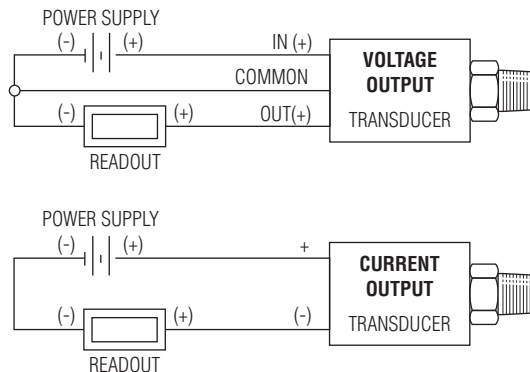
DIN 9.4 mm			M12 x 1P			Deutsch DT04-4P			Amp Superseal 1.5	
Code B		Code K		Code E		Code 8		Code 6		Note
Pin #	Voltage Mode	Current Mode	Voltage Mode	Current Mode	Voltage Mode	Current Mode	Voltage Mode	Current Mode	Voltage Mode	
1	V_{out} (pressure)	No Connect	V_{supply}	Supply	V_{supply}	Supply	Ground	Return	V_{out} (pressure)	
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	—	

Amp Superseal connectors may be used with 0.5-4.5V Ratiometric Output only.

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
557254	DIN 43650A Connector, strain relief (with drive screw & gasket)	G
	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			DIN 43650A		
Code 9			Code G		
Pin ID	Voltage Mode	Note	Pin #	Voltage Mode	Current Mode
C	V _{out} (pressure)	MetriPack connectors may be used with 0.5-4.5V Ratiometric Output only.	1	V _{supply}	Supply
A	Ground		2	Ground	Return
B	V _{supply}		3	V _{out} (pressure)	No Connect
—	—		4	No Connect	No Connect

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							G - DIN 43650A
	01B6 - 1.6 bar	030P - 30 psi							K - Industrial DIN 9.4 mm (alternate pin out)
	02B5 - 2.5 bar	050P - 50 psi							6 - Amp - Superseal 1.5 Series ¹
	04B0 - 4 bar	100P - 100 psi							8 - Deutsch DT04-4P
	06B0 - 6 bar	150P - 150 psi							9 - Packard MetriPack ¹
	10B0 - 10 bar	200P - 200 psi							Pressure Port
	16B0 - 16 bar	250P - 250 psi							01 - G1/4" External
Compound Range	00B0V - -1 to 0 barG	000PV - -15 to 0 psiG							02 - 1/4"-18 NPT
	01B0V - -1 to +1 barG	015PV - -15 to +15 psiG							04 - 7/16"-20 UNF with 37° Flare
	01B5V - -1 to +1.5 barG	035PV - -15 to +35 psiG							05 - G1/4" A Integral Face Seal
	03B0V - -1 to +3 barG	085PV - -15 to +85 psiG							08 - 1/8"-27 NPT
	05B0 - -1 to +5 barG	135PV - -15 to +135 psiG							0L - M12 x 1.5 - 6g
	09B0 - -1 to +9 barG	185PV - -15 to +185 psiG							0S - G1/8"-27 External
	15B0 - -1 to +15 barG	235PV - -15 to +235 psiG							
Pressure Datum	G - Gauge	A - Absolute	V - Compound						

Notes:
1. Compatible with Ratiometric Output Only; Code T