

COMPACT PRESSURE OEM TRANSMITTERS Series 3100

- ▶ 10 bar to 2200bar pressure ranges
- ▶ Less than 25mm long
- ▶ Choice of outputs

For OEMs that need consistent high levels of performance, reliability and stability the 3100 Series sputtered thin film units offer unbeatable price performance ratio in a small package size with all stainless steel wetted parts in the volumes required. 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 3100 series makes it ideal for installation where space is at a premium.

Specifications

Input

Pressure Range	0 to 10bar to 0 to 2200bar G (100 to 30,000psi)
Proof Pressure	2 x FS (Ranges 1600 & 2200bar 1.5x)
Burst Pressure	Ranges ~ 400bar 10 x minimum 600 & 1000b 4 x, 1600 & 2200 1.8x
Fatigue Life	Designed for more than 100,000,000 cycles

Performance

Long Term Drift	0.1% FS/year non cumulative
Accuracy	±0.25% FS (Temp 0/P ± 2.5%FS)
Thermal Error	±1% typical/100°C
Compensated Temperature	-40° to 120°C (-40° to 250°F)
Operable	-40° to 125°C (-40° to 250°F)
Zero Tolerance	±0.5% of span
Span Tolerance	±0.5% of span

Mechanical Construction

Pressure Port	See ordering chart
Wetted Parts	17-4 PH Stainless Steel
Electrical Connection	See ordering chart

Enclosure

	IP65 for electrical code B (with connector fitted)
	IP67 for electrical codes E, 6, 7, 8 and 9
Vibration	20G, 10-2000Hz sinusoidal
Shock	Withstands free fall to IEC 68-2-32 procedure 1
Approvals	CE
Weight	35 gms

Individual Specifications

Voltage Output Units

Output	See ordering chart (current 4.5mA)
Supply Voltage	2 Volts above Full Scale, to max 30 Volts

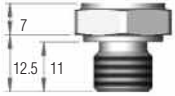
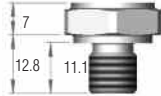
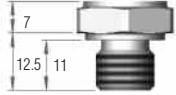
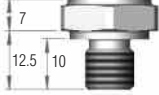
Current Output Units

Output	4-20mA
Supply Voltage	10 to 30Vdc (24Vdc max for 110° and above)
Max. Loop Resistance	(Vs-10) x 50 ohms

Ratiometric Output Units

Output	0.5 to 4.5Vdc (3.5mA max)
Supply Voltage	5Vdc, ± 10%

MECHANICAL FITTINGS

Code 01 G 1/4 EXT 	Code 04 7/16"-20 UNF with 37° Flare 	Code 1J 7/16"-20 UNF O-Ring 	Code 02 1/4"-18 NPT 	Code 08 1/8"-27 NPT 
Code 05 G 1/4" A Integral Face Seal 	Code 0L M12 x 15 	Code 2T M12x1.5 HP [metal washer seal] 	Code IG 7/16" Schraeder 	

Electrical Connectors



Hex is 22mm [.866] Across Flats (A/F) for deep socket mounting.
Other thread forms available. Consult factory.

NOTE: Dimensions in mm

How to Order

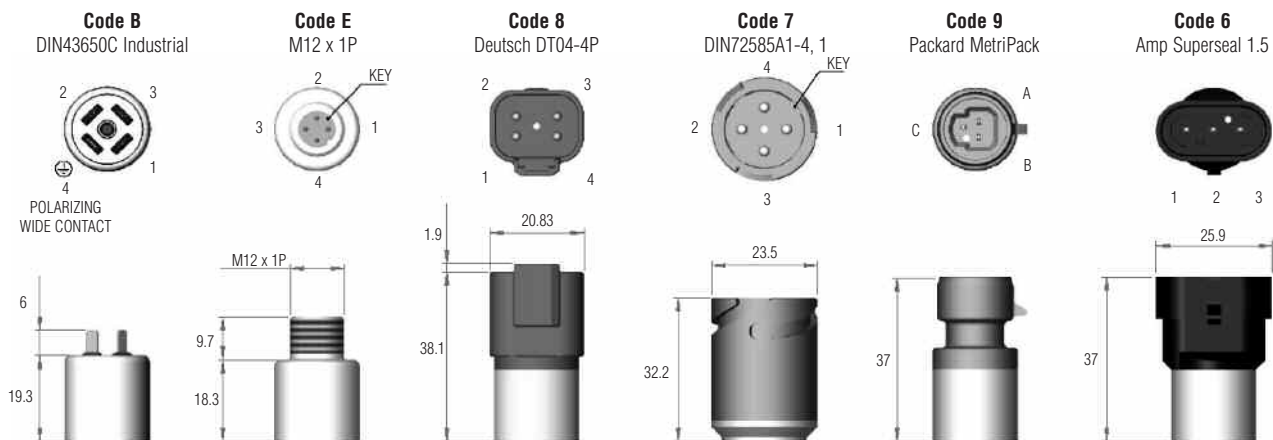
Use the **Bold** characters from the chart below to construct a product code

Series	310X	X	XXXXX	XX	X	000	
Variants to Standard Types							Electrical Connection
00 - Pressure output							6 - AMP Superseal 1.5 Series
01 - Pressure and temperature output (see Note 1)							7 - DIN 72585 Bayonet
Output							8 - Deutsch Series DT-04
B - 4-20mA		C - 1-6V					9 - Packard Metripak
H - 1-5V		N - 0.5 to 4.5V Non Ratiometric	R - 0-5 V				B - Industrial DIN
S - 0-10V		T - 0.5 to 4.5 Ratiometric					E - M12x 1
Pressure Range							
0010G - 10barG	0100S - 100barS	1000S - 1000barS)					
0016G - 16barG	0160S - 160barS	1600S - 1600barS) (see Note 2)					
0025G - 25barG	0250S - 250barS	2200S - 2200 barS)					
0040G - 40barG	0400S - 400barS						
0060G - 60barG	0600S - 600barS						
Integral Pressure Connection							
01 - G1/4 External							
02 - 1/4- 18 NPT External							
04 - 7/16-20 UNF External							
05 - G1/4 External Soft Seal							
08 - 1/8 NPT External							
0L - M12 x 1.5 - 6g (600b and below)							
1G - Schraeder Deflator (Short)							
1J - 7/16 - 20 UNF External 'O' Ring Seal							
2T - M12 x 1.5-6g (1000b and above)							

Note 1 Pressure and temperature output available with voltage output and electrical connectors B, E, 7 and 8 only

Note 2 Ranges 1000 bar and above available with 2T pressure port only.

ELECTRICAL CONNECTOR



Note: The diameter of all cans is 19mm [.748]

Pin #	Function	
	Current	Voltage
1	N/A	Press O/P +VE
2	+VE	Supply +VE
3	N/A	Temp O/P +VE
4	-VE	Common

Pin #	Function	
	Current	Voltage
1	+VE	Supply +VE
2	N/A	Press O/P +VE
3	-VE	Common
4	N/A	Temp O/P +VE

Pin #	Function	
	Current	Voltage
1	-VE	Common
2	+VE	Supply +VE
3	N/A	Temp O/P +VE
4	N/A	Press O/P +VE

Pin #	Function	
	Current	Voltage
1	+VE	Supply +VE
2	-VE	Common
3	N/A	Press O/P +VE
4	N/A	Temp O/P +VE

Pin #	Function	
	Current	Voltage
A	-VE	Common
B	+VE	Supply +VE
C	N/A	Press O/P +VE

Pin #	Function	
	Current	Voltage
1	N/A	Press O/P +VE
2	-VE	Common
3	+VE	Supply +VE