

3100 Series Compact High Pressure OEM Pressure Transmitter

PRESSURE TRANSDUCERS

SPUTTERED THIN FILM

- ▶ 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.

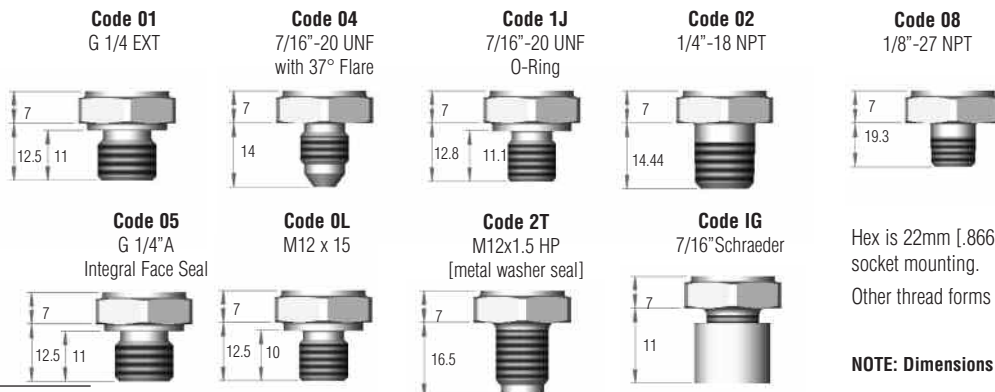
Specifications

Input	
Pressure Range	0 to 10bar or 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 O/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



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

NOTE: Dimensions in mm

Electrical Connectors



AMP Superseal 1.5



DIN 43650C Industrial



DIN 72585 Bayonet



M12 Ranges



Deutsch DTD4-4P



Packard Metri-pack

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							For mating electrical connectors and cables see page 67.
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

<p>Code B DIN43650C Industrial</p> <p>POLARIZING WIDE CONTACT</p>	<p>Code E M12 x 1P</p>	<p>Code 8 Deutsch DT04-4P</p>	<p>Code 7 DIN72585A1-4, 1</p>	<p>Code 9 Packard MetriPack</p>	<p>Code 6 AMP Superseal 1.5</p>
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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