

1700 Series-Hygienic Pressure Transmitters

- ▶ Pressure Ranges from 100 Millibar to 40 Bar
- ▶ Sanitary or G1 Process Connections
- ▶ Voltage and Current Output Models
- ▶ Temperature Cooling Options Available for 302°F or 572°F (150°C or 300°C) Operation

The 1700 series features a stainless steel diaphragm with various process connections suitable for dairy and pharmaceutical applications. The 1700 is suitable for both static and dynamic pressure measurement in the ranges from 100 millibar to 40 bar and is available with a choice of electrical outputs and connections.



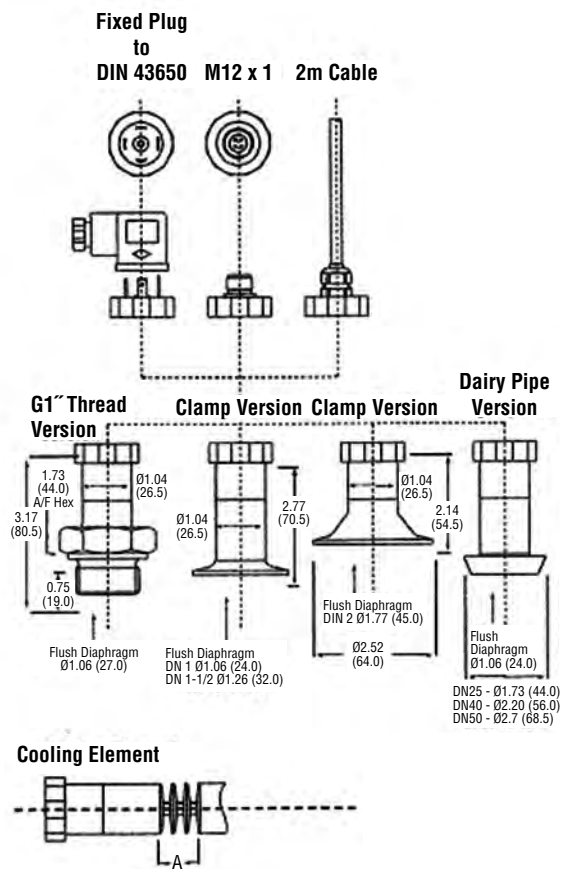
Specifications

Input	
Pressure Range	0 to 600 psi (0 to 40 bar) Gauge and Absolute
Proof Pressure	>2 x Full Scale
Burst Pressure	>2 x Full Scale
Fatigue Life	Designed for more than 100 million cycles
Performance	
Long Term Drift	±0.2% span/annum
Accuracy	0.25%
Thermal Error Over Compensated Temperature	1% (0°C to 70°C), 2% for 100, 250, and 400 millibar ranges (0°C to 50°C)
Operating Temperatures	-13°F to +185°F (-25°C to +85°C) -13°F to +257°F (-25°C to +125°C) media
Zero Tolerance	1% of span
Span Tolerance	1% of span
Mechanical Configuration	
Pressure Port	see ordering chart
Wetted Parts	316 S/S: Seals Viton® (G1 thread only)
Electrical Connection	see ordering chart
Enclosure	IP65 = G (with connector fitted) IP67 = E & F
Fill Fluid	Silicon oil or food grade
Vibration	10g rms, 20 - 2000Hz
Acceleration	10g
Shock	100g 11ms
Approvals	CE, EXII 1G, E Exia IIC T4
Weight	175gm
Voltage Output Units	
Output	see ordering chart
Supply Voltage (Vs)	12 to 36Vdc
Supply Voltage Sensitivity	0.005% FS/Volt
Min. Load Resistance	10Kohm
Current Consumption	15 mA max
Current Output Units	
Output	4 - 20mA 2 wire
Supply Voltage (Vs)	12 to 36Vdc (IS units 14 - 28 volts)
Supply Voltage Sensitivity	0.005% FS/Volt
Max. Loop Resistance	(Vs-12) x 50 ohms

EMC Specifications

Emissions & Immunity according to EN61326.

Dimensions inch (mm)



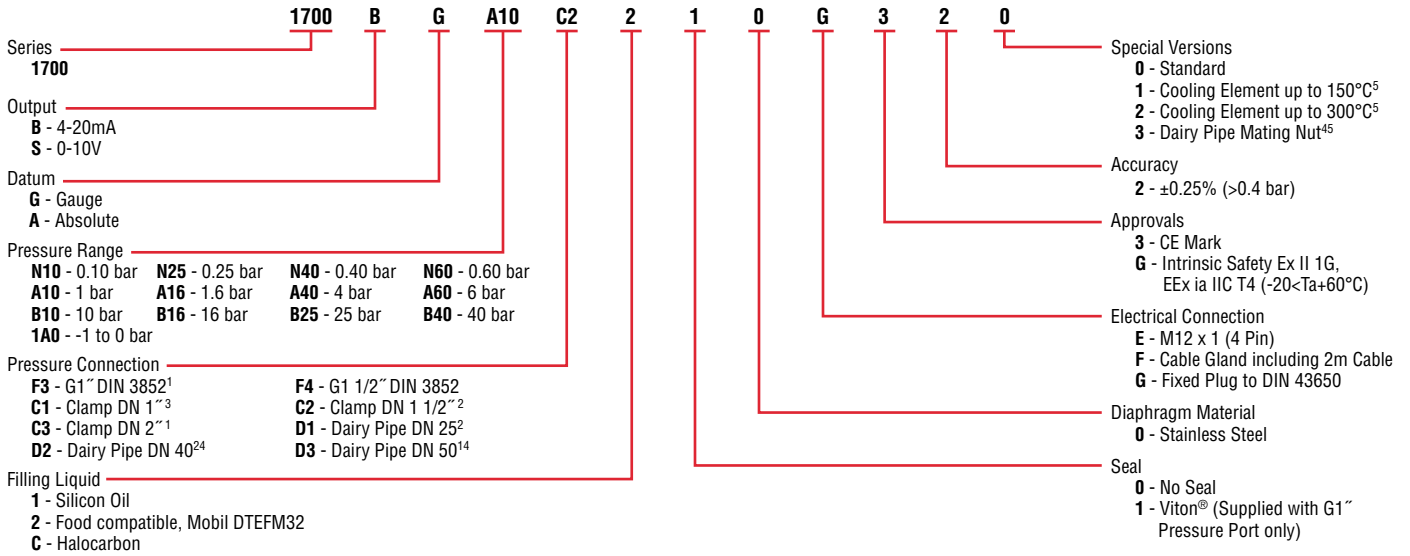
Temperature Range	Size A	Number of Cooling Fins
302°F (150°C)	0.87 (22)	2
572°F (300°C)	1.34 (34)	3

Intrinsically Safe units length increased by 1.06" (27 mm).

PRESSURE TRANSDUCERS

How to Order

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



Electrical Connections

Electrical Connection Code	2-Wire System			3-Wire System			
	Supply +	Supply -	Ground	Supply +	Supply -	Signal +	Ground
E M12 x 1 (4-pin)	1	2	4	1	2	3	4
F Cable	WH	BR	DRAIN	WH	BR	G	DRAIN
G "DIN 43650"	1	2	GROUND	1	2	3	GROUND

Cable Legend:

WH = White
BR = Brown
G = Green

Notes:

1. Not available for ranges ≤250mb.
2. Not available for ranges ≤400mb.
3. Not available for ranges ≤600mb.
4. For Dairy Pipe Mating Nut.
5. Please state media temperature (max 85°C) and mounting orientation.