

## HYGENIC PRESSURE TRANSMITTERS Series 1700

- ▶ Pressure ranges from 100millibar to 40bar
- ▶ Sanitary or G1 process connections
- ▶ Voltage and current output models
- ▶ Temperature cooling options Available for 150° or 300°C operation

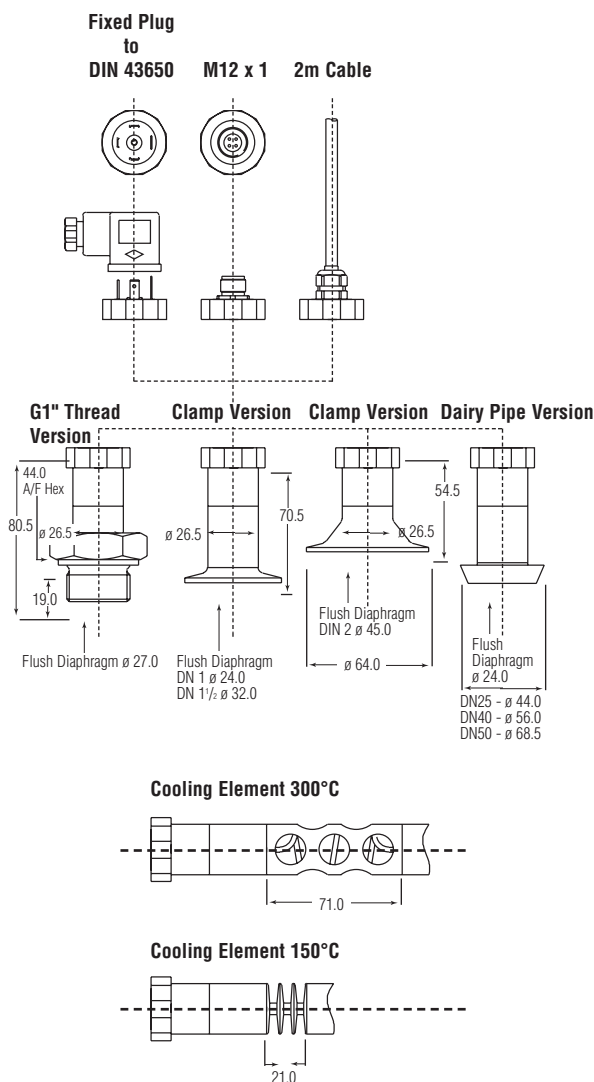
The 1700 series features a stainless steel diaphragm with various process connections suitable for dairy and pharmaceutical applications. The 1700 is suitable for both static and dynamic pressure measurement in the ranges from 100millibar to 40bar and is available with a choice of electrical outputs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

### Specifications

<b>Input</b>	
<b>Pressure range</b>	0 to 40bar, Gauge & Absolute
<b>Proof pressure</b>	> 2 x full scale
<b>Burst pressure</b>	> 2 x full scale
<b>Fatigue life</b>	Designed for more than 100 million cycles
<b>Performance</b>	
<b>Long term drift</b>	± 0.2% span/annum
<b>Accuracy</b>	0.25%
<b>Thermal error</b>	1% (0° to 70°C), 2% for 100 and 250millibar ranges (0° to 50°C)
<b>Compensated temperatures</b>	-20° to 80°C
<b>Operating temperatures</b>	-25°C to 85°C (media -25°C to 125°C)
<b>Zero tolerance</b>	1% of span
<b>Span tolerance</b>	1% of span
<b>Mechanical Configuration</b>	
<b>Pressure port</b>	See ordering chart
<b>Wetted parts</b>	316 S/S: Seals Viton (G1 thread only)
<b>Electrical connection</b>	See ordering chart
<b>Enclosure</b>	IP65 = G (with connector fitted) IP67 = E & F
<b>Fill Fluid</b>	Silicon oil or food grade
<b>Vibration</b>	10g rms, 20 - 2000Hz
<b>Acceleration</b>	10g
<b>Shock</b>	100g 11ms
<b>Approvals</b>	CE, Ex II 1G, EEx ia IIC T4
<b>Weight</b>	175gm
<b>Voltage Output units</b>	
<b>Output</b>	See ordering chart
<b>Supply voltage (Vs)</b>	12 to 36Vdc
<b>Supply voltage sensitivity</b>	0.005% FS/Volt
<b>Min. load resistance</b>	10Kohm
<b>Current consumption</b>	15mA max
<b>Current Output units</b>	
<b>Output</b>	4-20mA 2 wire
<b>Supply voltage (Vs)</b>	12 to 36vdc (IS units 14-28 volts)
<b>Supply voltage sensitivity</b>	0.005% FS/Volt
<b>Max. loop resistance</b>	(Vs-12) x 50 ohms



### Dimensions (in mm)



Intrinsically Safe units length increased by 27mm

## How to Order

	<b>1700</b>	<b>B</b>	<b>G</b>	<b>A10</b>	<b>C2</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>G</b>	<b>3</b>	<b>2</b>	<b>0</b>
<b>Series</b>												
<b>1700</b>												
<b>Output</b>												
<b>B</b> - 4-20mA												
<b>S</b> - 0-10V												
<b>Datum</b>												
<b>G</b> - Gauge												
<b>A</b> - Absolute												
<b>Pressure Range</b>												
<b>N10</b> - 0.10bar	<b>N25</b> - 0.25bar	<b>N40</b> - 0.40bar	<b>N60</b> - 0.60bar									
<b>A10</b> - 1bar	<b>A16</b> - 1.6bar	<b>A40</b> - 4bar	<b>A60</b> - 6bar									
<b>B10</b> - 10bar	<b>B16</b> - 16bar	<b>B25</b> - 25bar	<b>B40</b> - 40bar									
<b>1A0</b> - -1 to 0bar												
<b>Pressure Connection</b>												
<b>*F3</b> - G1" DIN 3852	<b>F4</b> - G1 1/2" DIN 3852	<b>***C1</b> - Clamp DN1"										
<b>**C2</b> - Clamp DN 1 1/2"	<b>*C3</b> - Clamp DN 2"	<b>***D1</b> - Dairy Pipe DN 25										
<b>**D2</b> - Dairy Pipe DN 40	<b>*D3</b> - Dairy Pipe DN 50											
<b>Note</b> <sup>1</sup> = For Dairy Pipe Mating Nut												
<b>*</b> Not available for ranges ≤250mb												
<b>**</b> Not available for ranges ≤400mb												
<b>***</b> Not available for ranges ≤600mb												
<b>Filling Fluid</b>												
<b>1</b> - Silicon Oil												
<b>2</b> - Food compatible, Mobil DTEFM32												
<b>C</b> - Halocarbon												
<b>Seal</b>												
<b>0</b> - No seal												
<b>1</b> - Viton (Supplied with G1" Pressure Port only)												
<b>Diaphragm Material</b>												
<b>0</b> - Stainless Steel												
<b>Electrical Connection</b>												
<b>E</b> - M12 x 1 (4 Pin)												
<b>F</b> - Cable Gland including 2m Cable												
<b>G</b> - Fixed Plug to DIN 43650												
<b>Approvals</b>												
<b>3</b> - CE Mark												
<b>G</b> - Intrinsic Safety Ex II 1G, EEx ia IIC T4 (-20<Ta<+60°C)												
<b>Accuracy</b>												
<b>2</b> - ±0.25% (>0.4bar)												
<b>Special Versions</b>												
<b>0</b> - Standard												
<b>1</b> - Cooling Element up to 150°C												
<b>2</b> - Cooling Element up to 300°C												
<b>3</b> <sup>1</sup> - Dairy Pipe Mating Nut												

Please state media temperature, ambient temperature (max 85°C) and mounting orientation

## Pin Configuration

Electrical Connection				
		DIN 43650	M12x1 (4-pin)	Cable
2-wire-system	Supply +	1	1	White
	Supply -	2	2	Brown
	Ground	Ground pin	4	Drain
3-wire-system	Supply +	1	1	White
	Supply -	2	2	Brown
	Signal +	3	3	Green