# 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 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 connecctions.

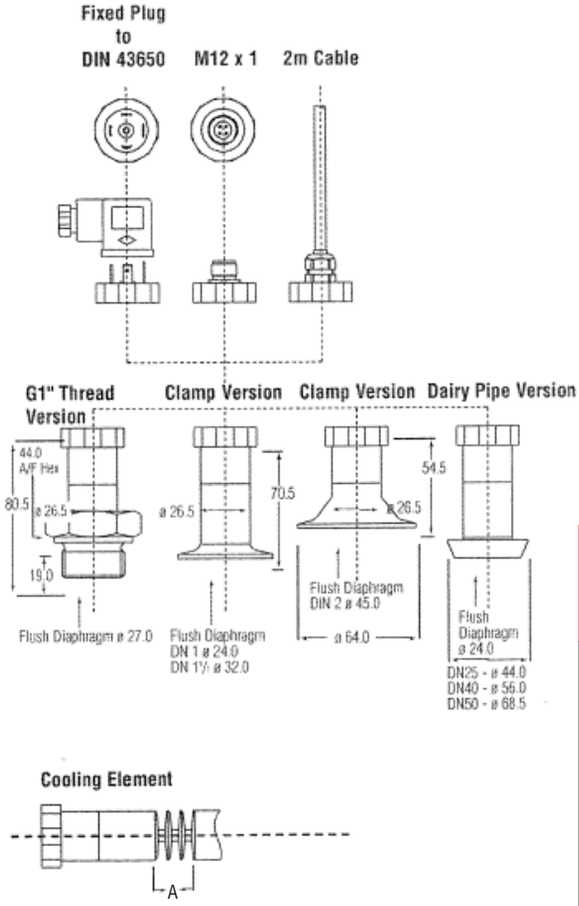
## Specifications

| | |
|---|---|
| **Input** | |
| **Pressure Range** | 0 to 40 bar (0 to 600 psi) 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** | -25°C to +85°C (-13°F to +185°F)<br>-25°C to +125°C (-13°F to +257°F) 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)<br>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 mm (in.)







| Temperature Range | Size A | Number of Cooling Fins |
|---|---|---|
| 150°C | 22 | 2 |
| 300°C | 34 | 3 |

Intrinsically Safe units length increased by 27 mm.