

GBD Series – Heavy Duty Differential Industrial Pressure Transmitter

- Suitable for Liquid, Gas and Vapour Media
- High Static Line Pressure
- 4:1 Span Turndown Capability

The GBD series incorporates an LVDT sensor in a robust differential pressure enclosure, which is ideal for industrial process applications. An isolated stainless steel diaphragm uses one of two fluid fills available to transfer its movement to the LVDT sensor. A choice of silicone or flurolube fluid fills are available. These transmitters' turndown capabilities coupled with their rugged design make them very well suited for harsh and demanding applications.

Specifications

Input

Pressure Range 40 mbar to 6 bar (0.6-87psi)

Proof Pressure* 35 bar for 40mbar range
50 bar for 160 mbar range
100 bar all other ranges

Static Pressure 100 bar (1500 psi)

Performance

Output 4-20-mA (2 wire)

Supply Voltage (Vs) 8 to 30 Vdc (8-38 Vdc for IS units)

Supply Voltage Sensitivity 0.01% of max span/Volt

Zero Stability 0.2% of max span per year non cumulative

Accuracy 0.2% of max span (typical)

Thermal Error 1.5% of max span (typical)

Compensated Temperatures -20° to 100° C (-4° to 212° F) process

Operating Temperatures -20° to 100° C (14° to 158° F) ambient
-10° to 70° C (14° to 158° F) ambient

Response Time 0.1 seconds

Span Adjustment 25% to 100% of max span

Max Loop Resistance (Vs-8) to 50 ohms

Mechanical Configuration

Pressure Port two G1/4 internal

Wetted Parts Diaphragm 17-7PH SS (optional 316 ss)
Flanges carbon steel or 316SS
O-ring Nitrile or Viton

Electrical Connection M20 x 1.5mm, screw terminals

Enclosure IP 65 (Nema 4) Aluminium alloy with anodized finish or stainless steel, rotates 360°

Approvals

CE, Intrinsic Safety EExia II T6 (optional)

Weight

4kg

* These pressures do not cause a zero shift greater than 5% of the max span.

How to Order

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

SELECT:

	GBD	D	O	T	HS	860	A	E	N	/options
1. Agency Approvals										
D Non certified, supply 8-30 Vdc										
S IS certified IIC T6, supply 8-28 Vdc										
2. Transmitter Head										
T Aluminium alloy head; H Stainless Steel head										
3. Oil Fill: HS Silicone Oil; HF Fluorolube Oil										
4. Pressure Range										
840 0-40 mbar (0-16"wg); 870 0-1 bar (0-14.5 psi)										
851 0-160 mbar (0-2.3 psi); 872 0-2.4 bar (0-35 psi)										
860 0-400 mbar (0-5.8 psi); 881 0-6 bar (0-87 psi)										
5. Flange Material: A Carbon Steel; B 316SS										
6. Diaphragm Material										
E Heat treated 15-7 Mo or 17-7PH ss; B 316ss (optional)										
7. O-Ring Material; N Nitrile; V Viton										
8. Options: /WDP Fixed wall bracket; /PDP 2" pipe clamp										



Dimensions mm (in.)

