

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.)

