

# 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

<b>Input</b>	
<b>Pressure Range</b>	40 mbar to 6 bar (0.6-87psi)
<b>Proof Pressure*</b>	35 bar for 40mbar range 50 bar for 160 mbar range 100 bar all other ranges
<b>Static Pressure</b>	100 bar (1500 psi)
<b>Performance</b>	
<b>Output</b>	4-20-mA (2 wire)
<b>Supply Voltage (Vs)</b>	8 to 30 Vdc (8-38 Vdc for IS units)
<b>Supply Voltage Sensitivity</b>	0.01% of max span/Volt
<b>Zero Stability</b>	0.2% of max span per year non cumulative
<b>Accuracy</b>	0.2% of max span (typical)
<b>Thermal Error</b>	1.5% of max span (typical)
<b>Compensated Temperatures</b>	-20° to 100° C (-4° to 212° F) process
<b>Operating Temperatures</b>	-20° to 100° C (14° to 158° F) ambient -10° to 70° C (14° to 158° F) ambient
<b>Response Time</b>	0.1 seconds
<b>Span Adjustment</b>	25% to 100% of max span
<b>Max Loop Resistance</b>	(Vs-8) to 50 ohms
<b>Mechanical Configuration</b>	
<b>Pressure Port</b>	two G1/4 internal
<b>Wetted Parts</b>	Diaphragm 17-7PH SS (optional 316 ss) Flanges carbon steel or 316SS O-ring Nitrile or Viton
<b>Electrical Connection</b>	M20 x 1.5mm, screw terminals
<b>Enclosure</b>	IP 65 (Nema 4) Aluminium alloy with anodized finish or stainless steel, rotates 360°
<b>Approvals</b>	CE, Intrinsic Safety EExia II T6 (optional)
<b>Weight</b>	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

<b>SELECT:</b>	<b>GBD</b>	<b>D</b>	<b>O</b>	<b>T</b>	<b>HS</b>	<b>860</b>	<b>A</b>	<b>E</b>	<b>N</b>	/options
1. Agency Approvals										
<b>D</b> Non certified, supply 8-30 Vdc										
<b>S</b> IS certified IIC T6, supply 8-28 Vdc										
2. Transmitter Head										
<b>T</b> Aluminium alloy head; <b>H</b> Stainless Steel head										
3. Oil Fill: <b>HS</b> Silicone Oil; <b>HF</b> Fluorolube Oil										
4. Pressure Range										
<b>840</b> 0-40 mbar (0-16"wg); <b>870</b> 0-1 bar (0-14,5 psi)										
<b>851</b> 0-160 mbar (0-2.3 psi); <b>872</b> 0-2.4 bar (0-35 psi)										
<b>860</b> 0-400 mbar (0-5.8 psi); <b>881</b> 0-6 bar (0-87 psi)										
5. Flange Material: <b>A</b> Carbon Steel; <b>B</b> 316SS										
6. Diaphragm Material										
<b>E</b> Heat treated 15-7 Mo or 17-7PH ss; <b>B</b> 316ss (optional)										
7. O-Ring Material; <b>N</b> Nitrile; <b>V</b> Viton										
8. Options: <b>/WDP</b> Fixed wall bracket; <b>/PDP</b> 2" pipe clamp										



**PRESSURE TRANSDUCERS**

## Dimensions mm (in.)

