

GDN Series-Flush Mount Pressure Transmitter

- ▶ Ranges from 40 mbar to 40 bar
- ▶ All Stainless Steel Construction
- ▶ 4:1 Span Turndown Capability

The GDN series utilizes LVDT technology in a flush mount package for slurries, suspended solids in liquids, and other dirty applications where recessed fitting could not be used. These transmitters feature all welded stainless steel construction with a G1 thread for easy installation and cleaning. Zero and Span field adjustments are standard, but hidden to prevent unauthorized tampering.

Specifications

Input

Pressure Range	40 mbar to 40 bar (0.6- 580 psi)
Proof Pressure*	10 x Full Scale (FS) < 2.4 bar range 4 x FS <= 16 bar range; 2 x FS <= 40 bar range
Maximum Vacuum	50% of max span
Burst Pressure	10 x FS

Performance

Output	4-20 mA (2 wire)
Supply Voltage (Vs)	8 to 30 Vdc
Supply Voltage Sensitivity	0.01% of max span/Volt
Zero Stability	0.4% of max span per year non cumulative
Accuracy	0.25 % of max span (typical)
Thermal Error	2.5% of max span (typical)
Compensated Temperatures	0-50 C (32-120 F)
Operating Temperatures	-20° to 85° C (-4° to 185° F) process -10° to 70° C (14° to 158° F) ambient
Response Time	0.1 seconds
Zero Adjustment	+/- 10% of max span
Span Adjustment	25% to 100 % of max span
Max. Loop Resistance	(Vs-8) x 50

Mechanical Configuration

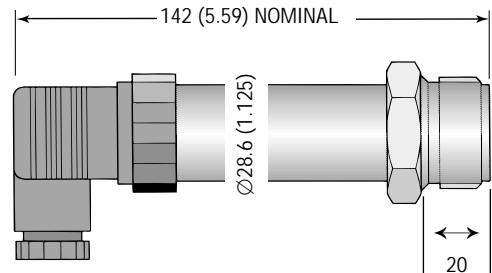
Pressure Port	
G1 external or G1/4 internal	
Wetted Parts	17-7 PH ss (optional 316ss or Hastelloy C)
Electrical Connection	DIN 43650, (pin 1 +, pin 2 -)
Enclosure	IP 65 (Nema 4), 316ss
Approvals	CE
Weight	500 grams

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

Electrical connection	Wiring		
	(+)	(-)	EARTH
DIN PLUG	1	2	4



Dimensions mm (in.)



How to Order

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

SELECT: GDN **D** **3** **G** **881**

1. Pressure Connection *
 - 3** G1 external (flush diaphragm)
 - 1** G1/4 internal (recessed diaphragm)
2. Pressure Range
 - 851** 0-160 mbar (0-2.3 psi)*
 - 860** 0-400 mbar (0-5.8 psi)
 - 870** 0-1 bar (0-14.5 psi)
 - 872** 0-2 bar (0-29 psi)
 - 881** 0-6 bar (0-87 psi)
 - 891** 0-16 bar (0-232 psi)
 - 900** 0-40 bar (0-580 psi)

* The 851 range is only available with the G1/4 internal, recessed diaphragm, fitting. All other ranges are available in either recessed or flush mount construction.