

5000 Series Low Range Pressure Transducer

- ▶ Immersible and general purpose models
- ▶ Open faced for viscous liquids
- ▶ High proof pressures

The 5000 Series features a sturdy ceramic diaphragm and precision capacitance technology to detect minute pressure variations, while withstanding large pressure spikes. The tough ceramic sensor is housed in a stainless steel case to ensure performance in the most demanding applications. Both voltage and 4-20mA outputs are available at time of order. A switch and potentiometer can be accessed for field adjustment of range with 3:1 ranging capability.



Lloyds Register

Specifications

Input

Pressure Range	0 to 25mb to 0 to 1bar
Proof Pressure	2bar for ranges 200mb and below 4bar for ranges 201mb to 350mb 7bar ranges 351mb to 1bar
Burst Pressure	3bar for 70mb and below 4bar for 71mb to 200mb 6bar for 201mb to 350mb 10bar for bar ranges 351mb to 1bar
Fatigue Life	10 million FS cycles

Performance

Long Term Stability	.25% span/annum
Accuracy	.2% span max
Thermal Error	2% span max
Compensated Temperatures	-20°C to 60°C (-5° to 140°F)
Operating Temperatures	-25°C to +85°C (-15° to 185°F) Electrical Code G and L -20°C to +50°C (-5° to 120°F) Electrical Code M and 3 -40°C to +100°C (-40° to 212°F) Process media
Zero Tolerance	0.1% span
Span Tolerance	0.1% span
Mounting Effects	.25% span max
Response Time	5ms
Supply Voltage Sensitivity	.01% span/volt
Zero Adjustment	±10% (by potentiometer)
Span Adjustment	±10% (by potentiometer)

Mechanical Configuration

Pressure Port	(See ordering guide)
*Wetted Parts	S/S to UNS 31803; Inconel 625, Ceramic & Nitrile
Electrical Connection	(See ordering guide)
Enclosure	Code M IP68 Submersible Code G IP65
Approvals	CE, Lloyds Register Exll 1G, EEx ia IIB T4 (-20<Ta<+75°C)
Weight	330gms (excluding cable)

Individual Specifications

Voltage Output units

Output	(See ordering guide)
Supply Voltage (Vs)	8 to 35V Max

Current Output Unit

Output	4-20mA (2 wire)
Supply Voltage (Vs)	9 to 35Vdc
Max. Loop Resistance	(Vs-9) x 50 ohms

How to Order

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

SELECT

Series **5000**

Output

- B** - 4-20mA **C** - 1-6Vdc **F** - 0.1-5.1Vdc
- H** - 1-5Vdc **J** - 0.5-5.5Vdc **R** - 0-5Vdc

Pressure Datum

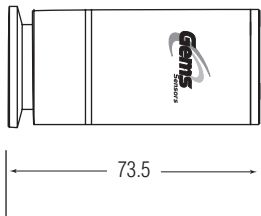
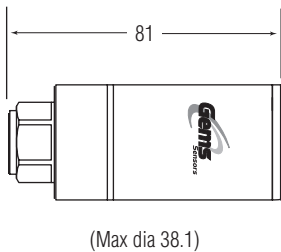
G - Gauge

Pressure range code*

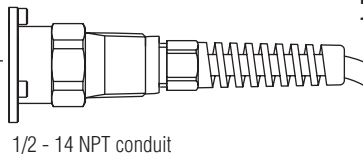
- M70** - 25 to 70mb
- N20** - 71mb to 200mb
- N35** - 201mb to 350mb
- A10** - 351mb to 1bar

* specify range setting required at time of order
eg. 0 to 75mb, 0 to 1mWG etc

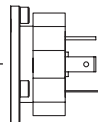
- 5000** - Series
 - B** - Output
 - G** - Pressure Datum
 - N20** - Pressure range code
 - BK** - Pressure Connection
 - M** - Electrical Connection
 - 3** - Electrical Connection
 - 001** - Cable Length
 - A** - Static/Thermal Error Band
- Static/Thermal Error Band**
A - 0.25%/2%
 - Cable Length**
000 - No cable
001 - 1 metre
999 - 999 metres etc
 - Approvals**
3 - CE Marked
G - ATEX approved ExII 1G
EEx ia IIB T4 (-20< Ta <+75°)
 - Electrical Connection**
3 - 1/2 - 14 NPT conduit
G - Fixed Plug to DIN 43650,
Mating Connector Supplied
L - M12 x 1 (5 pin)
M - Immersible Cable Assembly, IP68
 - Pressure Connection**
00 - G1/4 Internal
0F - KF25 Flange
AK - G 1/4 External
BK - 1/4 - 18NPT External
KK - 7/16 - 20unf - 3A External
MK - M14x1.5 External
19 - Acetal nose cone



Flange Face Diameter (1.57/40)



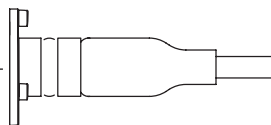
Code 3



Code G



Code L



Code M

Electrical Connection	Wiring mA			Wiring Voltage			
	+	-	EARTH	+IN	OV	+OP	EARTH
G DIN	PIN 1	2	4	1	2	3	4
M IP68 CABLE	RED	BLUE	DRAIN	RED	WHITE	YELLOW	DRAIN
3 CONDUIT	RED	BLUE	DRAIN	RED	WHITE	YELLOW	DRAIN