

1702 Series - Fixed Range Low Pressure Transmitters

PRESSURE TRANSDUCERS

LOW RANGE PRODUCTS

- ▶ Pressure ranges from 40mb to 1bar
- ▶ 316 S/S Diaphragm
- ▶ Voltage and current output models
- ▶ Choice of enclosures and pressure fittings

The Gems 1702 low range pressure transmitter is ideal for pneumatics, process control and chemical processes. Featuring a 316 S/S diaphragm and Viton 'O' ring the 1702 is compatible with many corrosive medias. A choice of process connections makes the units suitable for direct pipe mounting whilst optional electrical outputs and connections allow interfacing with most systems.

Specifications

Input

Pressure range	40mbar to 1bG, 100mbar to 1bA
Proof pressure	>2 x full scale
Burst pressure	>2 x full scale
Fatigue life	Designed for more than 100 million cycles

Performance

Long term drift	±0.1% span/annum
Accuracy	±0.25%
Thermal error	1% (0° to 70°C), 2% for 40 to 250millibar ranges (0° to 50°C)

Compensated temperatures	-20° to 80°C
Operating temperatures	-25°C to 85°C (media -25°C to 125°C)
Zero tolerance	1% of span
Span tolerance	1% of span

Mechanical Configuration

Pressure port	See ordering chart
Wetted parts	316 S/S, Viton
Electrical connection	See ordering chart
Enclosure	IP65 = G (with connector fitted) IP67 = E & F
Vibration	10g rms, 20 - 2000Hz
Acceleration	10g
Shock	100g 11ms
Weight	140gm

Voltage Output units

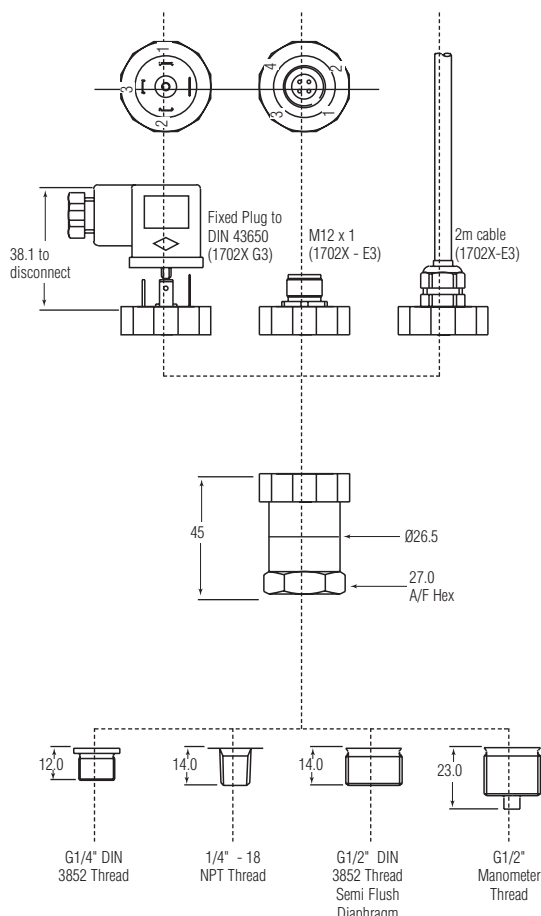
Output	See ordering chart
Supply voltage (Vs)	14 to 36Vdc
Supply voltage sensitivity	0.005% FS/Volt
Min. load resistance	10Kohm
Current consumption	7mA max

Current Output units

Output	4-20mA 2 wire
Supply voltage (Vs)	12 to 36vdc
Supply voltage sensitivity	0.005% FS/Volt
Max. loop resistance	(Vs-12) x 50 ohms



Dimensions (in mm)



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How to Order

	1702	B	G	A10	02	0	1	0	G	3	2	0
Series	_____											
1702												
Output	_____											
B - 4-20mA												
S - 0-10V												
Datum	_____											
G - Gauge												
A - Absolute ≥ 100mbar												
Pressure Range	_____											
N04 - 40mbar N06 - 60mbar N10 - 100mbar												
N25 - 250mbar N40 - 400mbar N60 - 600mbar												
Pressure Connection	_____											
01 - G1/4 EXT												
02 - 1/4 - 18 NPT EXT												
03 - G1/2 Manometer												
FO - G1/2 Semi-Flush												
Seal	_____											
1 - Viton												
Diaphragm Material	_____											
0 - Stainless Steel												
Electrical Connection	_____											
E - M12 x 1 (4 Pin)												
F - Cable Gland including 2m Cable												
G - Fixed Plug to DIN 43650												
Approvals	_____											
3 - CE Mark												
Accuracy	_____											
2 - 0.25%												
Special Versions	_____											
0 - Standard												

Pin Configuration

Electrical Connection

		DIN 43650	M12x1 (4-pin)	Cable
2-wire-system	Supply +	1	1	White
	Supply -	2	2	Brown
	Ground	Ground pin	4	Drain
3-wire-system	Supply +	1	1	White
	Supply -	2	2	Brown
	Signal +	3	3	Green
	Ground	Ground pin	4	Drain