

PM620 pressure modules

Features

- Fully interchangeable with no need for set-up or calibration
- Simple screw fit – hand tight no tools required
- Safe and hazardous area versions available

The PM620 is the latest development in digital output sensor technology incorporating a number of key innovations to allow pressure re-ranging of compatible equipment. A simple screw fit makes both the pressure and electrical connections without the need for tools, sealing tape, cables or plugs and digital characterization allows interchangeability without set-up or calibration.

The PM620T in addition incorporates our unique range of TERPS resonant silicon pressure sensor technology. Providing up to four times greater stability and higher accuracy.

PM620

- Ranges from 25 mbar to 1,000 bar (10 inH₂O to 15,000 psi)
- Total uncertainty from 0.025% FS



PM620 specification	
Maximum intermittent pressure	2 x FS
Maximum working pressure	110% FS
Sealing	IP 65 (protected against dust and jets of water)
Operating temperature	-10 to 50°C (14 to 122°F)
Storage temperature	-20 to 70°C (-4 to 158°F)
Humidity	0 to 90% RH non condensing
Shock and vibration	BS EN 61010-1:2010; MIL-PRF-28800F for Class II equipment, 1 m Drop Tested
EMC	BS EN 61326-1:2006
Electrical safety	BS EN 61010-1:2010
Pressure safety	Pressure equipment directive class SEP
Approval	CE marked
Size and weight	L. 56 mm, Dia. 44 mm, 106 g maximum

PM620-IS Pressure module specification (where different from PM620)	
Approval	CE and UKCA Marked
	ATEX & IECEx intrinsically safe:  II IG Ex ia IIC T4 Ga (-10°C ≤ Ta ≤ +50°C)
	ETL intrinsically safe (US and Canada): Class I, Zone 1, AEx/Ex ia IIC T4 (-10°C ≤ Ta ≤ +50°C)

Gauge ranges (referenced to atmosphere)					
		Media	NLH&R 20°C ± 2°C (68°F ± 4°F) 24 hr Gauge	NLH&R 0° to 50°C (32° to 122°F) 24 hr Gauge	Total uncertainty 0° to 50°C (32° to 122°F) for 1 year Gauge
bar	psi		%FS	%FS	%FS
±0.025	±10 inH ₂ O	1	0.090	0.090	0.100
±0.07	±1	1	0.025	0.030	0.047
±0.1	±1.45	1	0.020	0.027	0.045
±0.2	±3	1	0.020	0.027	0.045
±0.35	±5	2	0.020	0.025	0.044
±0.7	±10	2	0.015	0.020	0.041
±1	-14.5 to 15	2	0.015	0.020	0.041
-1 to 2	-14.5 to 30	2	0.015	0.020	0.025
-1 to 3.5	-14.5 to 50	2	0.010	0.020	0.025
-1 to 7	-14.5 to 100	2	0.010	0.020	0.025
-1 to 10	-14.5 to 150	2	0.005	0.020	0.025
-1 to 20	-14.5 to 300	2	0.005	0.020	0.025
0 to 35	0 to 500	2	0.005	0.020	0.025
0 to 70	0 to 1,000	2	0.005	0.020	0.025
0 to 100	0 to 1,500	2	0.005	0.020	0.025
0 to 135	0 to 2,000	2	0.005	0.020	0.025
0 to 200	0 to 3,000	2	0.005	0.020	0.025

NLH&R non-linearity, hysteresis and repeatability

① Compatible with non-corrosive gas/fluid

② Compatible with stainless steel

*The reading can be referenced to ambient air pressure via a software feature of the DPI620 Genii, allowing the same module to be switched between absolute and sealed gauge measurement.

DPI620 Genii pressure resolution: adjustable 4 to 7 digits. Uncertainty confidence level 95% (K=2)

Absolute ranges (referenced to vacuum)								
		Media	NLH&R 20°C ± 2°C (68°F ± 4°F) 24 hr Absolute	NLH&R 20°C ± 2°C (68°F ± 4°F) 24 hr *Sealed gauge	NLH&R 0° to 50°C (32° to 122°F) 24 hr Absolute	NLH&R 0° to 50°C (32° to 122°F) 24 hr *Sealed gauge	Total uncertainty 0° to 50°C (32° to 122°F) for 1 year Absolute	Total uncertainty 0° to 50°C (32° to 122°F) for 1 year *Sealed gauge
bar	psi		%FS	%FS	%FS	%FS	%FS	%FS
0 to 7	0 to 100	2	0.015		0.036		0.050	
0 to 10	0 to 150	2	0.015	0.005	0.030	0.020	0.047	0.025
0 to 20	0 to 300	2	0.015	0.005	0.030	0.020	0.047	0.025
0 to 35	0 to 500	2	0.015	0.005	0.030	0.020	0.047	0.025
0 to 70	0 to 1,000	2	0.015	0.005	0.030	0.020	0.047	0.025
0 to 100	0 to 1,500	2	0.015	0.005	0.030	0.020	0.046	0.025
0 to 135	0 to 2,000	2	0.015	0.005	0.030	0.020	0.046	0.025
0 to 200	0 to 3,000	2	0.015	0.005	0.030	0.020	0.046	0.025
0 to 350	0 to 5,000	2	0.015	0.005	0.033	0.020	0.049	0.025
0 to 700	0 to 10,000	2	0.015	0.005	0.033	0.020	0.049	0.025
0 to 1000	0 to 15,000	2	0.015	0.005	0.033	0.020	0.049	0.025