



# PM620 TERPS High Accuracy Pressure Modules

PM620 TERPS incorporates the existing new TERPS technology. TERPS is a resonant silicon pressure sensor technology platform that provides an order of magnitude greater accuracy and stability than current pressure measurement technologies.

## Features

- Fully interchangeable with no need for set-up or calibration
- Simple screw fit - hand tight no tools required
- Ranges from 1.2 bar to 100 bar (10 inH<sub>2</sub>O to 15,000 psi)
- Accuracy from 0.0125% FS
- Compatibility with pressure calibrators such as DPI612 and DPI620G/DPI620G-IS using a MC620 or PV pressure base
- Intrinsically safe version available



# Ordering Information

Code	Description
PM620T-06A	1.2 bar absolute
PM620T-07A	2 bar absolute
PM620T-10A	7 bar absolute
PM620T-13A	20 bar absolute
PM620T-14A	35 bar absolute
PM620T-16A	70 bar absolute
PM620T-16SA	100 bar absolute
Intrinsically safe	
PM620TS-06A	1.2 bar absolute
PM620TS-07A	2 bar absolute
PM620TS-10A	7 bar absolute
PM620TS-13A	20 bar absolute
PM620TS-14A	35 bar absolute
PM620TS-16A	70 bar absolute
PM620TS-16SA	100 bar absolute

## PM620 TERPS Specification

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 MIL-PRF-28800F for Class II equipment, 1 m Drop Tested
EMC	BS EN 61326-1
Electrical safety	BS EN 61010-1
Pressure safety	Pressure equipment directive class SEP
Approval	CE marked
Size and weight	L. 56 mm, Dia. 44 mm, 106 g maximum
RoHS	Compliant

## Uncertainty

Pressure Range (Absolute)	NLHR @ 25°C	NLHR @ -10°C to 50°C	Total uncertainty @ -10°C to 50°C
1.2 bar	0.006%	0.012%	0.020%
2 bar	0.004%	0.008%	0.0125%
7 bar	0.004%	0.008%	0.0125%
20 bar	0.004%	0.008%	0.0125%
35 bar	0.004%	0.008%	0.0125%
70 bar	0.004%	0.008%	0.0125%
100 bar	0.004%	0.008%	0.0125%

### Note:

The pressure reading can be referenced to ambient air pressure in the DPI620 Genii, allowing the same module to be switched between absolute and sealed gauge measurement

## Hazardous Area Approvals

Approval	Baseefa 16ATEX0012X IECEX BAS 10.0004X Ex II 1 G Ex ia IIC T4 Ga (-10 ≤ Ta ≤ +50°C)
EN60079-0	Electrical apparatus for Potentially Explosive Atmospheres - General Requirements.
EN60079-11	Electrical apparatus for Potentially Explosive Atmospheres - Intrinsic Safety 'i'.

Orientation Stability	<0.2 mbar/g
Drift at pressure (100 bar range)	<50 ppm @ -10°C to 50°C when held at pressure for 1 hour  <100 ppm @ -10°C to 50°C when held at pressure for 24 hour  For all other ranges drift at pressure reduces linearly for 100 bar
Media Compatibility	Media to be compatible with Stainless Steel
Resolution	Selectable - 4 to 7 digits
Uncertainty Confidence Level	95% (k=2)

NLH&R: Non-linearity, hysteresis and repeatability

Total uncertainty includes reference standard uncertainty, NLHR over specified temperature range and 1 year drift.

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920-687A