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PM600 Pressure Measurement Modules

For [6270A \(/products/pressure-calibration/automated-pressure-controller-calibrators/pneumatic-pressure-control-1\)](#), [8270A and 8370A \(/products/pressure-calibration/automated-pressure-controller-calibrators/high-pressure-pneumatic-co-1\)](#) Pressure Controller/Calibrators



(https://us.flukecal.com/sites/default/files/imagecache/product-detail-zoom/sites/flukecal.com/files/assets/accessories/Fc-6270a-pm600-a7m_01b_c.jpg)

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Performance specifications

The performance specifications describe the complete instrumental uncertainty of the Product. The specifications include all relevant error components (linearity, hysteresis, repeatability, resolution, reference standard measurement uncertainty, 1-year drift, and temperature effects). The specifications are provided at a level of confidence of 95%, k=2, normally distributed. Precision uncertainty includes linearity, hysteresis, repeatability, resolution, and temperature effects.

PM600 Modules measurement specifications

Specifications are valid from 15 °C to 35 °C.

Model	Absolute Mode Range (SI Units)	Absolute Mode Range (Imperial Units)	Gauge Mode Range ³ (SI Units)	Gauge Mode Range (Imperial Units)	1-Year Instrumental Uncertainty (% of reading or % span, whichever is greater)	Precision Uncertainty (% of reading or % span, whichever is greater)
BRM600-BA100K ⁴	70kPa to 110kPa	10psi to 16psi	-	-	0.01% of reading	0.008 or 0.0024
PM600-BG15K ⁵	-	-	-15kPa to 15kPa	-60inH2O to 60inH2O	0.01 or 0.003	0.008 or 0.0024
PM600-G100K ⁶	-	-	0kPa to 100kPa	0psi to 15psi	0.01 or 0.003	0.008 or 0.0024
PM600-G200K ⁶	-	-	0kPa to 200kPa	0psi to 30psi	0.01 or 0.003	0.008 or 0.0024
PM600-A100K ⁵	6kPa to 100kPa	0.9psi to 15psi	-94kPa to 0kPa	-13.8psi to 0psi	0.01 or 0.003 ^{1,4}	0.008 or 0.0024
PM600-A200K ⁶	10kPa to 200kPa	1.5psi to 30psi	-90kPa to 100kPa	-13.2psi to 15psi	0.01 or 0.003 ^{1,4}	0.008 or 0.0024
PM600-A350K ⁶	10kPa to 350kPa	1.5psi to 50psi	-90kPa to 250kPa	-13.2psi to 35psi	0.01 or 0.003 ¹	0.008 or 0.0024
PM600-	18kPa to	2.6psi to	-82kPa to	-12.1psi	0.01 or 0.003 ¹	0.008 or

A700K ⁷	700kPa	100psi	700kPa	to 100psi		0.0024
PM600-A1.4M ⁷	0.035MPa to 1.4MPa	5psi to 200psi	-0.065MPa to 1.4MPa	-10psi to 200psi	0.01 or 0.003 ¹	0.008 or 0.0024
PM600-A2M ⁷	0.07MPa to 2MPa	10psi to 300psi	-0.03MPa to 2MPa	-5psi to 300psi	0.01 or 0.003 ¹	0.008 or 0.0024
PM600-A3.5M ⁷	0.07MPa to 3.5MPa	10psi to 500psi	-0.03MPa to 3.5MPa	-5psi to 500psi	0.01 or 0.003 ¹	0.008 or 0.0024
PM600-A7M ⁷	ATM ² to 7MPa	ATM ² to 1000psi	0MPa to 7MPa	0psi to 1000psi	0.01 or 0.003 ¹	0.008 or 0.0024
PM600-A10M ⁷	ATM ² to 10MPa	ATM ² to 1500psi	0MPa to 10MPa	0psi to 1500psi	0.01 or 0.003 ¹	0.008 or 0.0024
PM600-A14M ⁷	ATM ² to 14MPa	ATM ² to 2000psi	0MPa to 14MPa	0psi to 2000psi	0.01 or 0.003 ¹	0.008 or 0.0024
PM600-A20M ⁷	ATM ² to 20MPa	ATM ² to 3000psi	0MPa to 20MPa	0psi to 3000psi	0.01 or 0.003 ¹	0.008 or 0.0024
PM600-A28M ⁸	ATM ³ to 28 MPa	ATM ³ to 4000psi	0MPa to 28 MPa	0psi to 4000psi	0.01 or 0.003 ²	0.008 or 0.0024
PM600-A35M ⁸	ATM ³ to 35 MPa	ATM ² to 5000psi	0MPa to 35 MPa	0psi to 5000psi	0.01 or 0.003 ²	0.008 or 0.0024
PM600-A40M ⁸	ATM ³ to 40MPa	ATM ³ to 6000psi	0MPa to 40 MPa	0psi to 6000psi	0.01 or 0.003 ²	0.008 or 0.0024
PM630-A70M ⁹	ATM ³ to 70MPa	ATM ³ to 10000psi	0MPa to 70MPa	0psi to 10000psi	0.01 or 0.003 ²	0.008 or 0.0024
PM630-A100M ⁹	ATM ³ to 104 MPa	ATM ³ to 15000psi	0MPa to 104 MPa	0psi to 15000 psi	0.012 or 0.004 ²	0.01 or 0.003

Notes

1. For PM600s absolute mode modules used in absolute mode, root sum square (RSS) with 0.007% of FS (reduced to k=1 by square root of 3).

$$\sqrt{\left(\frac{1 \text{ year instrumental uncertainty}}{2}\right)^2 + \left(\frac{0.007\% \text{ FS}}{1.73}\right)^2} \times 2$$

2. PM600 and PM630 modules with full scales of 28 MPa and higher use an internal barometer in the PMM to correct for changes in barometric pressure when they are used in gauge mode and as a zeroing reference when used in absolute mode, hence there is no need to RSS 0.007 %FS. ATM is any atmospheric pressure from 70kPa to 110kPa (10psi to 16psi).
3. For absolute ranges used in gauge mode there is an additional uncertainty of ±14 Pa for dynamic barometric compensation. When combined with uncertainties this changes the PM600-A100K Instrumental Uncertainty to ±0.015 kPa and the PM600-A200K to ±0.016 kPa. The threshold uncertainty for the PM600-A350K is changed to ±0.005 % Span.
4. These modules can be used as a barometric reference module on all chassis.
5. Compatible with [6270A \(/products/pressure-calibration/automated-pressure-controller-calibrators/pneumatic-pressure-control-1\)](#)
6. Compatible with [6270A \(/products/pressure-calibration/automated-pressure-controller-calibrators/pneumatic-pressure-control-1\)](#) and [8270A \(/products/pressure-calibration/automated-pressure-controller-calibrators/high-pressure-pneumatic-co-1\)](#)
7. Compatible with [6270A \(/products/pressure-calibration/automated-pressure-controller-calibrators/pneumatic-pressure-control-1\)](#), [8270A \(/products/pressure-calibration/automated-pressure-controller-calibrators/high-pressure-pneumatic-co-1\)](#)
8. Compatible with [8270A and 8370A \(/products/pressure-calibration/automated-pressure-controller-calibrators/high-pressure-pneumatic-co-1\)](#)
9. Compatible with [8370A \(/products/pressure-calibration/automated-pressure-controller-calibrators/high-pressure-pneumatic-co-1\)](#)

Model	Native Reference Mode	Minimum Setpoint (SI Units)	Maximum Setpoint (SI Units)	Minimum Setpoint (Imperial Units)	Maximum Setpoint (Imperial Units)
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PM600-BG15K	gauge	-15.47 kPa	15.47 kPa	-2.244 psi	2.244 psi
PM600-G100K	gauge	-2.11 kPa	105.5 kPa	-0.306 psi	15.3 psi
PM600-G200K	gauge	-4.22 kPa	211.0 kPa	-0.612 psi	30.6 psi
PM600-A100K	absolute	0 kPa	105.5 kPa	0 psi	15.3 psi
PM600-A200K	absolute	0 kPa	211.0 kPa	0 psi	30.6 psi
PM600-A350K	absolute	3.45 kPa	357 kPa	0.5 psi	51.8 psi
PM600-A700K	absolute	6.89 kPa	817 kPa	1 psi	118.6 psi
PM600-A1.4M	absolute	6.89 kPa	1.53 MPa	1 psi	222.1 psi
PM600-A2M	absolute	20.7 kPa	2.21 MPa	3 psi	321.0 psi
PM600-A3.5M	absolute	20.7 kPa	3.67 MPa	3 psi	532.8 psi
PM600-A7M	absolute	55.2 kPa	7.24 MPa	8 psi	1051 psi
PM600-A10M	absolute	55.2 kPa	10.06 MPa	8 psi	1545 psi
PM600-A14M	absolute	55.2 kPa	14.43 MPa	8 psi	2086 psi
PM600-A20M	absolute	55.2 kPa	20.12 MPa	8 psi	3075 psi
BRM600-BA100K	absolute	65.5 kPa	113.8 kPa	9.5 psi	16.5 psi

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