TECHNICAL DATA

PM600 Pressure Measurement Modules


PM600-A100K
100 kPa
15 psi
ABSOLUTE
FLUKE
Calibration
PM600-A100K
PRESSURE
MEASUREMENT
MODULE
PM600-A100K
100 kPa
15 psi
ABSOLUTE

Product overview: PM600 Pressure Measurement Modules

Key features:

- Fluke Calibration Quartz Reference Pressure Transducer (Q-RPT) technology provides precise measurement with long term stability
- 0.01% reading measurement uncertainty from 30% to 100% of the modules' span allows for extremely wide workload coverage
- Onboard barometer included with absolute mode pressure modules, allowing them to be used in both absolute and gauge mode

Specifications: PM600 Pressure Measurement Modules

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 % FS, whichever is greater)	Precision Uncertainty (% of reading or % FS, whichever is greater)
BRM600-BA100K[4]	70 kPa to 110 kPa	10 psi to 16 psi	-	-	0.01 % of reading	0.008 or 0.0024
PM600-BG15K[5]	-	-	-15 kPa to 15 kPa	-60 inH2O to 60 inH2O	0.01 or 0.003	0.008 or 0.0024
PM600-G100K[6]	-	-	0 kPa to 100 kPa	0 psi to 15 psi	0.01 or 0.003	0.008 or 0.0024
PM600-G200K[6]	-	-	0 kPa to 200 kPa	0 psi to 30 psi	0.01 or 0.003	0.008 or 0.0024
PM600-A100K[5]	6 kPa to 100 kPa	0.9 psi to 15 psi	-94 kPa to 0 kPa	-13.8 psi to 0 psi	0.01 or 0.003[1,4]	0.008 or 0.0024
PM600-A200K[6]	10 kPa to 200 kPa	1.5 psi to 30 psi	-90 kPa to 100 kPa	-13.2 psi to 15 psi	0.01 or 0.003[1,4]	0.008 or 0.0024
PM600-A350K[6]	10 kPa to 350 kPa	1.5 psi to 50 psi	-90 kPa to 250 kPa	-13.2 psi to 35 psi	0.01 or 0.003[1]	0.008 or 0.0024

PM600-A700K[7]	18 kPa to 700 kPa	2.6 psi to 100 psi	-82 kPa to 700 kPa	-12.1 psi to 100 psi	0.01 or 0.003[1]	0.008 or 0.0024
PM600-A1.4M[7]	0.035 MPa to 1.4 MPa	5 psi to 200 psi	-0.065 MPa to 1.4 MPa	-10 psi to 200 psi	0.01 or 0.003[1]	0.008 or 0.0024
PM600-A2M[7]	0.07 MPa to 2 MPa	10 psi to 300 psi	-0.03 MPa to 2 MPa	-5 psi to 300 psi	0.01 or 0.003[1]	0.008 or 0.0024
PM600-A3.5M[7]	0.07 MPa to 3.5 MPa	10 psi to 500 psi	-0.03 MPa to 3.5 MPa	-5 psi to 500 psi	0.01 or 0.003[1]	0.008 or 0.0024
PM600-A7M[7]	ATM[2] to 7 MPa	ATM [2] to 1000 psi	0 MPa to 7 MPa	0 psi to 1000 psi	0.01 or 0.003 [1]	0.008 or 0.0024
PM600-A10M[7]	ATM[2] to 10 MPa	ATM [2] to 1500 psi	0 MPa to 10 MPa	0 psi to 1500 psi	0.01 or 0.003 [1]	0.008 or 0.0024
PM600-A14M[7]	ATM[2] to 14 MPa	ATM [2] to 2000 psi	0 MPa to 14 MPa	0 psi to 2000 psi	0.01 or 0.003 [1]	0.008 or 0.0024
PM600-A20M[7]	ATM[2] to 20 MPa	ATM [2] to 3000 psi	0 MPa to 20 MPa	0 psi to 3000 psi	0.01 or 0.003 [1]	0.008 or 0.0024
PM600-A28M[8]	ATM[3] to 28 MPa	ATM [3] to 4000 psi	0 MPa to 28 MPa	0 psi to 4000 psi	0.01 or 0.003 2	0.008 or 0.0024
PM600-A35M[8]	ATM[3] to 35 MPa	ATM [2] to 5000 psi	0 MPa to 35 MPa	0 psi to 5000 psi	0.01 or 0.003 2	0.008 or 0.0024
PM600-A40M[8]	ATM[3] to 40 MPa	ATM [3] to 6000 psi	0 MPa to 40 MPa	0 psi to 6000 psi	0.01 or 0.003 [2]	0.008 or 0.0024
PM630-A70M[9]	ATM[3] to 70 MPa	ATM [3] to 10000 psi	0 MPa to 70 MPa	0 psi to 10000 psi	0.01 or 0.003 [2]	0.008 or 0.0024
PM630-A100M[9]	ATM[3] to 104 MPa	ATM [3] to 15000 psi	0 MPa to 104 MPa	0 psi 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).

1. PM600 and PM630 modules with full scales of 28 MPa and higher use an inteal 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 70 kPa to 110 kPa (10 psi to 16 psi).
2. For absolute ranges used in gauge mode there is an additional uncertainty of ±7 Pa for dynamic barometric compensation. When combined with other uncertainties this changes the threshold uncertainty for the PM600-A100K to 0.008 % Span and for the PM600-A200K to 0.004 % Span.
3. These modules can be used as a barometric reference module on all chassis.
4. Compatible with 6270A
5. Compatible with 6270A and 8270A
6. Compatible with 6270A, 8270A and 8370A
7. Compatible with 8270A and 8370A
8. Compatible with 8370A

Ordering information

PM600 Pressure Measurement Modules -- REVISED

For 6270A, 8270A and 8370A Pressure Controller/Calibrators

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