FLUKE®
Calibration

Technical Data

PM700 Pressure Measurement Modules





Laboratory-grade pressure accuracy with exceptional stability and broad workload coverage

The Fluke Calibration PM700 Pressure Measurement Modules deliver laboratory-grade pressure measurement performance with the flexibility required for modern calibration and test environments. Built on Fluke's proven Quartz Reference Pressure Transducer (Q-RPT) technology, the PM700 provides exceptional accuracy, long-term stability, and broad workload coverage, making it ideal for use with Fluke 6270A, 8270A, and 8370A Pressure Controller/Calibrators. With measurement uncertainty as low as 0.008% or 0.0024% span across a wide operating range, the PM700 helps calibration labs improve confidence, streamline operations, and reduce the number of modules needed to cover diverse pressure applications. Absolute pressure models include an onboard barometer, enabling both absolute and gauge measurements from a single module for added versatility.

PM700 Modules measurement specifications

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

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.

Product group:

- Electrical
- RF
- Temperature
- Humidity
- Pressure
- Flow
- Software

Specifications

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)
PM700-BG15KP	-	-	-15 kPa to 15 kPa	-60 inH2O to 60 inH2O	0.008 or 0.0024	0.005 or 0.0015
PM700-G100KP	-	-	0 kPa to 100 kPa	0 psi to 15 psi	0.008 or 0.0024	0.005 or 0.0015
PM700-G200KP	-	-	0 kPa to 200 kPa	0 psi to 30 psi	0.008 or 0.0024	0.005 or 0.0015
PM700-A700KP	18 kPa to 700 kPa	2.6 psi to 100 psi	-82 kPa to 700 kPa	-12.1 psi to 100 psi	0.008 or 0.00241	0.005 or 0.0015
PM700-A1.4MP	0.035 MPa to 1.4 MPa	5 psi to 200 psi	-0.065 MPa to 1.4 MPa	-10 psi to 200 psi	0.008 or 0.00241	0.005 or 0.0015
PM700-A2MP	0.07 MPa to 2 MPa	10 psi to 300 psi	-0.03 MPa to 2 MPa	-5 psi to 300 psi	0.008 or 0.00241	0.005 or 0.0015
PM700-A3.5MP	0.07 MPa to 3.5 MPa	10 psi to 500 psi	-0.03 MPa to 3.5 MPa	-5 psi to 500 psi	0.008 or 0.00241	0.005 or 0.0015
PM700-A7MP	ATM2 to 7 MPa	ATM 2 to 1000 psi	0 MPa to 7 MPa	0 psi to 1000 psi	0.008 or 0.00241	0.005 or 0.0015
PM700-A20MP	ATM2 to 20 MPa	ATM 2 to 3000 psi	0 MPa to 20 MPa	0 psi to 3000 psi	0.008 or 0.00241	0.005 or 0.0015
PM700-A28MP	ATM3 to 28 MPa	ATM 3 to 4000 psi	0 MPa to 28 MPa	0 psi to 4000 psi	0.008 or 0.00242	0.005 or 0.0015
PM700-A35MP	ATM3 to 35 MPa	ATM 2 to 5000 psi	0 MPa to 35 MPa	0 psi to 5000 psi	0.008 or 0.00242	0.005 or 0.0015
PM700-A40MP	ATM3 to 40 MPa	ATM 3 to 6000 psi	0 MPa to 40 MPa	0 psi to 6000 psi	0.008 or 0.00242	0.005 or 0.0015

Notes

1. For PM700s 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).

$$\sqrt{\left(\frac{1\ year\ instrumental\ uncertainty}{2}\right)^2 + \left(\frac{0.007\%FS}{\sqrt{3}}\right)^2} * 2$$

   This specification may be reduced or eliminated with the use of a sperate more stable module as an AutoZero reference

2. PM700 module 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 70 kPa to 110 kPa (10 psi to 16 psi).
3. For absolute ranges used in gauge mode there is an additional uncertainty of ±14 Pa for dynamic barometric compensation.
4. These modules can be used as a barometric reference module on all chassis.
5. Compatible with 6270A
6. Compatible with 6270A and 8270A
7. Compatible with 6270A, 8270A and 8370A
8. Compatible with 8270A and 8370A

Ordering information

Item Number	Model	Description
6180246	PM700-BG15KP	PRESSURE MEAS MODULE,-15 TO 15 KPA (-2.2 TO 2.2 PSI) GAUGE PREM
6180185	PM700-G100KP	PRESSURE MEAS MODULE,0 TO 100 KPA (0 TO 15 PSI) GAUGE PREM
6180171	PM700-G200KP	PRESSURE MEAS MODULE,0 TO 200 KPA (0 TO 30 PSI) GAUGE PREM
6180214	PM700-A700KP	PRESSURE MEAS MODULE,700 KPA (100 PSI) ABSOLUTE PREM
6180280	PM700-A1.4MP	PRESSURE MEAS MODULE,1.4 MPA (200 PSI) ABSOLUTE PREM
6180205	PM700-A2MP	PRESSURE MEAS MODULE,2 MPA (300 PSI) ABSOLUTE PREM
6180233	PM700-A3.5MP	PRESSURE MEAS MODULE,3.5 MPA (500 PSI) ABSOLUTE PREM
6180222	PM700-A7MP	PRESSURE MEAS MODULE,7 MPA (1000 PSI) ABSOLUTE PREM
6180192	PM700-A20MP	PRESSURE MEAS MODULE,20 MPA (3000 PSI) ABSOLUTE PREM
6180279	PM700-A28MP	PRESSURE MEAS MODULE,28 MPA (4000 PSI) ABSOLUTE PREM
6180251	PM700-A35MP	PRESSURE MEAS MODULE,35 MPA (5000 PSI) ABSOLUTE PREM
6180267	PM700-A40MP	PRESSURE MEAS MODULE,40 MPA (6000 PSI) ABSOLUTE PREM

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