技术资料

PM200 Pressure Measurement Modules



主要特性

For 2271A Industrial Pressure Calibrator and 6270A, 8270A and 8370A Pressure Controller / Calibrators

产品概述: PM200 Pressure Measurement Modules

Key features:

- 0.02% FS specification makes it ideal for calibrating or testing pressure dial gauges, lower accuracy transmitters, or pressure switches
- Rugged silicon pressure sensor design allows for faster control
- Economic price point helps facilitate the purchase of backup modules, making sure you are never down for calibration

产品规格: PM200 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.

PM200 Modules

Specifications are valid from 18 °C to 28 °C. For temperatures from 15 °C to 18 °C and 28 °C to 35 °C, add 0.003% FS/°C.

Model	Range (SI Units)	Range (Imperial Units)	Measurement Mode [1]	1-Year Instrumental Uncertainty % FS	Precision Uncertainty % FS
PM200-BG2.5K[3]	-2.5 kPa to 2.5 kPa	-10 inH_2O to 10 inH_2O	bi-directional gauge	0.2	0.055
PM200-BG35K[3]	-35 kPa to 35 kPa	-5 psi to 5 psi	bi-directional gauge	0.05	0.015
PM200-BG40K[3]	-40 kPa to 40 kPa	-6 psi to 6 psi	bi-directional gauge	0.05	0.015
PM200-BG60K[3]	-60 kPa to 60 kPa	-8.7 psi to 8.7 psi	bi-directional gauge	0.05	0.015
PM200-BG100K[2,4]	-100 kPa to 100 kPa	-15 psi to 15 psi	bi-directional gauge	0.02	0.01
PM200-A100K[2]	2 kPa to 100 kPa	0.3 psi to 15 psi	absolute	0.1	0.02
PM200-A200K[4]	2 kPa to 200 kPa	0.3 psi to 30 psi	absolute	0.1	0.02
PM200-BG200K[4]	-100 kPa to 200 kPa	-15 psi to 30 psi	bi-directional gauge	0.02	0.01
PM200-BG250K[4]	-100 kPa to 250 kPa	-15 psi to 36 psi	bi-directional gauge	0.02	0.01
PM200-G400K[4]	0 kPa to 400 kPa	0 psi to 60 psi	gauge	0.02	0.01
PM200-G700K[5]	0 kPa to 700 kPa	0 psi to 100 psi	gauge	0.02	0.01
PM200-G1M[5]	0 MPa to 1 MPa	0 psi to 150 psi	gauge	0.02	0.01
PM200-G1.4M[5]	0 MPa to 1.4 MPa	0 psi to 200 psi	gauge	0.02	0.01
PM200-G2M[5]	0 MPa to 2 MPa	0 psi to 300 psi	gauge	0.02	0.01

PM200-G2.5M[5]	0 MPa to 2.5 MPa	0 psi to 360 psi	gauge	0.02	0.01
PM200-G3.5M[5]	0 MPa to 3.5 MPa	0 psi to 500 psi	gauge	0.02	0.01
PM200-G4M[5]	0 MPa to 4 MPa	0 psi to 580 psi	gauge	0.02	0.01
PM200-G7M[5]	0 MPa to 7 MPa	0 psi to 1000 psi	gauge	0.02	0.01
PM200-G10M[5]	0 MPa to 10 MPa	0 psi to 1500 psi	gauge	0.02	0.01
PM200-G14M[5]	0 MPa to 14 MPa	0 psi to 2000 psi	gauge	0.02	0.01
PM200-G20M[5]	0 MPa to 20 MPa	0 psi to 3000 psi	gauge	0.02	0.01
PM200-G28M[6]	0 MPa to 28 MPa	0 psi to 4000 psi	gauge	0.02	0.01
PM200-G35M[6]	0 MPa to 35 MPa	0 psi to 5000 psi	gauge	0.02	0.01
PM200-G40M[6]	0 MPa to 40 MPa	0 psi to 6000 psi	gauge	0.02	0.01
PM200-G70M[7]	0 MPa to 70 MPa	0 psi to 10000 psi	gauge	0.02	0.01
PM200-G100M[7]	0 MPa to 104 MPa	0 psi to 15 000 psi	gauge	0.015 % FS + 0.02 % of reading	0.015

Notes
1. PM200 gauge mode modules support absolute mode measurement when used with a barometric reference module. Instrumental uncertainty for gauge mode modules used in absolute mode by addition of a barometric reference module is calculated as the uncertainty of the gauge mode module root sum squared with the uncertainty of the barometric reference module. Uncertainty for gauge mode assumes routine zeroing which is default operating mode when used in a chassis. Uncertainty for absolute mode modules includes 1-year zero stability. This specification can be reduced to 0.05 % FS if the PM200 module is zeroed on a continuing basis to remove the 1-year zero stability component.
2. This module can be used as a barometric reference module.
3. Compatible with 2271A and 6270A.
4. Compatible with 2271A, 6270A and 8270A.
5. Compatible with 2271A, 6270A, 8270A and 8370A.
6. Compatible with 8270A and 8370A.
7. Compatible with 8370A.

型号



PM200-BG2.5K

Pressure Measurement Module, -2.5 to 2.5 kPa (-10 to 10 inH2O)

PM200

For 2271A Industrial Pressure Calibrator, and 6270A, 8270A and 8370A Pressure Controller/Calibrators

PM200-BG35K

Pressure Measurement Module, -35 to 35 kPa (-5 to 5 psi) gauge

PM200-BG40K

Pressure Measurement Module, -40 to 40 kPa (-6 to 6 psi) gauge

PM200-A100K

Pressure Measurement Module, 100 kPa (15 psi) absolute

PM200-BG100K

Pressure Measurement Module, -100 to 100 kPa (-15 to 15 psi) gauge

PM200-A200K

Pressure Measurement Module, 200 kPa (30 psi) absolute

PM200-BG200K

Pressure Measurement Module, -100 to 200 kPa (-15 to 30 psi) gauge

PM200-BG250K

Pressure Measurement Module, -100 to 250 kPa (-15 to 36 psi) gauge

PM200-G400K

Pressure Measurement Module, 0 to 400 kPa (0 to 60 psi) gauge

PM200-G700K

Pressure Measurement Module, 0 to 700 kPa (0 to 100 psi) gauge

PM200-G1M

Pressure Measurement Module, 0 to 1 MPa (0 to 150 psi) gauge

PM200-G1.4M

Pressure Measurement Module, 0 to 1.4 MPa (0 to 200 psi) gauge

PM200-G2M

Pressure Measurement Module, 0 to 2 MPa (0 to 300 psi) gauge

PM200-G2.5M

Pressure Measurement Module, 0 to 2.5 MPa (0 to 360 psi) gauge

PM200-G3.5M

Pressure Measurement Module, 0 to 3.5 MPa (0 to 500 psi) gauge

PM200-G4M

Pressure Measurement Module, 0 to 4 MPa (0 to 580 psi) gauge

PM200-G7M

Pressure Measurement Module, 0 to 7 MPa (0 to 1000 psi) gauge

PM200-G10M

Pressure Measurement Module, 0 to 10 MPa (0 to 1500 psi) gauge

PM200-G14M

Pressure Measurement Module, 0 to 14 MPa (0 to 2000 psi) gauge

PM200-G20M

Pressure Measurement Module, 0 to 20 MPa (0 to 3000 psi) gauge

PM200-G28M

Pressure measurement module, 28 mpa (4000 psi) gauge

PM200-BG60K

Pressure measurement module, -60 to 60 kPa (-8.7 to 8.7 psi) gauge

PM200-G35M

Pressure measurement module, 35 mpa (5000 psi) gauge

PM200-G40M

Pressure measurement module, 40 mpa (6000 psi) gauge

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