技术资料

PM500 Pressure Measurement Modules



主要特性

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

产品概述: PM500 Pressure Measurement Modules

Key features:

- Highly characterized and linearized silicon pressure sensor provides an economical way of making accurate pressure measurements
- 0.01% of reading measurement uncertainty from 50% to 100% for most ranges allows for wide workload coverage
- More than 45 ranges, from low differential pressures up to 20 MPa (3000 psi) to choose from. Your application is covered with this wide flexibility in configuration.

产品规格: PM500 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.

PM500 Modules measurement specifications

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

Model	Range (SI Units)	Range (Imperial Units)	Measurement Mode[2]	1-Year Instrumental Uncertainty[7]	1-Year Zero Instrumental Drift % FS, RSS with 1-Year Instrumental Uncertainty[1]	Precision Uncertainty[8]
PM500-G100K[4]	0 kPa to 100 kPa	0 psi to 15 psi	gauge	0.01 or 0.005	-	0.007 or 0.0035
PM500-G200K[4]	0 kPa to 200 kPa	0 psi to 30 psi	gauge	0.01 or 0.005	-	0.007 or 0.0035
PM500-G250K[4]	0 kPa to 250 kPa	0 psi to 36 psi	gauge	0.01 or 0.005	-	0.007 or 0.0035
PM500-G350K[4]	0 kPa to 350 kPa	0 psi to 50 psi	gauge	0.01 or 0.005	-	0.007 or 0.0035
PM500-G400K[4]	0 kPa to 400 kPa	0 psi to 60 psi	gauge	0.01 or 0.005	-	0.007 or 0.0035
PM500-G600K[4]	0 kPa to 600 kPa	0 psi to 90 psi	gauge	0.01 or 0.005	-	0.007 or 0.0035
PM500-G700K[5]	0 kPa to 700 kPa	0 psi to 100 psi	gauge	0.01 or 0.005	-	0.007 or 0.0035
PM500-BG1M[5]	-0.1 MPa to 1 MPa	-15 psi to 150 psi	bi-directional gauge	0.01 or 0.005	-	0.007 or 0.0035
PM500-BG1.4M[5]	-0.1 MPa to 1.4 MPa	-15 psi to 200 psi	bi-directional gauge	0.01 or 0.005	-	0.007 or 0.0035
PM500-BG2M[5]	-0.1 MPa to 2 MPa	-15 psi to 300 psi	bi-directional gauge	0.01 or 0.005	-	0.007 or 0.0035
PM500-BG2.5M[5]	-0.1 MPa to 2.5 MPa	-15 psi to 400 psi	bi-directional gauge	0.01 or 0.005	-	0.007 or 0.0035
PM500-BG3.5M[5]	-0.1 MPa to 3.5 MPa	-15 psi to 500 psi	bi-directional gauge	0.01 or 0.005	-	0.007 or 0.0035
PM500-BG4M[5]	-0.1 MPa to 4 MPa	-15 psi to 600 psi	bi-directional gauge	0.01 or 0.005	-	0.007 or 0.0035

PM500-BG7M[5]	-0.1 MPa to 7 MPa	-15 psi to 1000 psi	bi-directional gauge	0.01 or 0.005	-	0.007 or 0.0035
PM500-BG10M[5]	-0.1 MPa to 10 MPa	-15 psi to 1500 psi	bi-directional gauge	0.01 or 0.005	-	0.007 or 0.0035
PM500-BG14M[5]	-0.1 MPa to 14 MPa	-15 psi to 2000 psi	bi-directional gauge	0.01 or 0.005	-	0.007 or 0.0035
PM500-BG20M[5]	-0.1 MPa to 20 MPa	-15 psi to 3000 psi	bi-directional gauge	0.01 or 0.005	-	0.007 or 0.0035
PM500-BA120K[3, 6]	60 kPa to 120 kPa	8 psi to 17 psi	absolute	0.01 % of reading	0.05	0.005 % of reading
PM500-A120K[3, 6]	0.08 kPa to 120 kPa	0.01 psi to 16 psi	absolute	0.01 or 0.005	0.05	0.007 or 0.0035
PM500-A160K[3, 6]	0.08 kPa to 160 kPa	0.01 psi to 23 psi	absolute	0.01 or 0.005	0.05	0.007 or 0.0035
PM500-A200K[3, 4]	0.08 kPa to 200 kPa	0.01 psi to 30 psi	absolute	0.01 or 0.005	0.05	0.007 or 0.0035
PM500- A350K [4]	0.08 kPa to 350 kPa	0.01 psi to 50 psi	absolute	0.01 or 0.005	0.03	0.007 or 0.0035
PM500- A700K [4]	0.08 kPa to 700 kPa	0.01 psi to 100 psi	absolute	0.01 or 0.005	0.025	0.007 or 0.0035
PM500- A1.4M [5]	0.035 MPa to 1.4 MPa	5 psi to 200 psi	absolute	0.01 or 0.005	0.015	0.007 or 0.0035
PM500-A2M [5]	0.07 MPa to 2 MPa	10 psi to 300 psi	absolute	0.01 or 0.005	0.015	0.007 or 0.0035
				(% FS + % of reading)		(% FS + % of reading)
PM500- G2.5K [6]	0 kPa to 2.5 kPa	0 inH_2O to 10 inH_2O	gauge	0.03 + 0.02	-	0.015 + 0.01
PM500-G7K [6]	0 kPa to 7 kPa	0 inH_2O to 30 inH_2O	gauge	0.01 + 0.01	-	0.005 + 0.005
PM500-G14K[6]	0 kPa to 14 kPa	0 inH_2O to 50 inH_2O	gauge	0.01 + 0.01	-	0.005 + 0.005
PM500-G20K[6]	0 kPa to 20 kPa	0 inH_2O to 80 inH_2O	gauge	0.01 + 0.01	-	0.005 + 0.005
PM500-G35K[6]	0 kPa to 35 kPa	0 psi to 5 psi	gauge	0.01 + 0.01	-	0.005 + 0.005
PM500-G70K[6]	0 kPa to 70 kPa	0 psi to 10 psi	gauge	0.01 + 0.01	-	0.005 + 0.005
PM500-NG100K[6]	-100 kPa to 0 kPa	-15 psi to 0 psi	negative gauge	0.01 + 0.01	-	0.005 + 0.005
PM500-BG1.4K[6]	-1.4 kPa to 1.4 kPa	-5 inH_2O to 5 inH_2O	bi-directional gauge	0.03 + 0.02	-	0.015 + 0.01
PM500-BG2.5K[6]	-2.5 kPa to 2.5 kPa	-10 inH_2O to 10 inH_2O	bi-directional gauge	0.03 + 0.02	-	0.015 + 0.01

PM500-BG3.5K[6]	-3.5 kPa to 3.5 kPa	-15 inH_2O to 15 inH_2O	bi-directional gauge	0.01 + 0.01	-	0.005 + 0.005
PM500-BG7K[6]	-7 kPa to 7 kPa	-30 inH_2O to 30 inH_2O	bi-directional gauge	0.01 + 0.01	-	0.005 + 0.005
PM500-BG14K[6]	-14 kPa to 14 kPa	-50 inH_2O to 50 inH_2O	bi-directional gauge	0.01 + 0.01	-	0.005 + 0.005
PM500-BG25K[6]	-25 kPa to 25 kPa	-100 inH_2O to 100 inH_2O	bi-directional gauge	0.01 + 0.01	-	0.005 + 0.005
PM500-BG40K[6]	-40 kPa to 40 kPa	-6 psi to 6 psi	bi-directional gauge	0.01 + 0.01	-	0.005 + 0.005
PM500-BG60K[6]	-60 kPa to 60 kPa	-9 psi to 9 psi	bi-directional gauge	0.01 + 0.01	-	0.005 + 0.005
				% FS		% FS
PM500-BG100K[4]	-100 kPa to 100 kPa	-15 psi to 15 psi	bi-directional gauge	0.01	-	0.005
PM500-BG200K[4]	-100 kPa to 200 kPa	-15 psi to 30 psi	bi-directional gauge	0.01	-	0.005
PM500-BG250K[4]	-100 kPa to 250 kPa	-15 psi to 36 psi	bi-directional gauge	0.01	-	0.005
PM500-BG350K[4]	-100 kPa to 350 kPa	-15 psi to 50 psi	bi-directional gauge	0.01	-	0.005
PM500-BG400K[4]	-100 kPa to 400 kPa	-15 psi to 60 psi	bi-directional gauge	0.01	-	0.005
PM500-BG700K[5]	-100 kPa to 700 kPa	-15 psi to 100 psi	bi-directional gauge	0.01	-	0.005

Notes
1. The 1 Year Instrumental Uncertainty is specified with a zeroing technique in the Operators Manual. If not adhered to the 1 Year Instrumental Uncertainty is:
2. PM500 gauge or bi-directional 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 operation mode when used in a chassis.
3. These modules can be used as barometric reference modules on all chassis.
4. Compatible with 2271A, 6270A and 8270A
5. Compatible with 2271A, 6270A, 8270A and 8370A
6. Compatible with 2271A and 6270A
7. (% of reading or % FS, whichever is greater) unless otherwise stated
8. (% of reading or % FS, whichever is greater)

型号



PM500-G20K

Pressure measurement module 0 to 20 kPa (0 to 80 inh2o) gauge

PM500-G35K

Pressure measurement module 0 to 35 kPa (0 to 5 psi) gauge

PM500-G70K

Pressure measurement module 0 to 70 kPa (0 to 10 psi) gauge

PM500-G100K

Pressure measurement module 0 to 100 kPa (0 to 15 psi) gauge

PM500-G200K

Pressure measurement module 0 to 200 kPa (0 to 30 psi) gauge

PM500-G250K

Pressure measurement module 0 to 250 kPa (0 to 36 psi) gauge

PM500-G350K

Pressure measurement module 0 to 350 kPa (0 to 50 psi) gauge

PM500-G400K

Pressure measurement module 0 to 400 kPa (0 to 60 psi) gauge

PM500-G600K

Pressure measurement module 0 to 600 kPa (0 to 90 psi) gauge

PM500-G700K

Pressure measurement module 0 to 700 kPa (0 to 100 psi) gauge

PM500-BG3.5K

Pressure measurement module -3.5 to 3.5 kPa (-15 to 15 inh2o) gauge

PM500-BG7K

Pressure measurement module -7 to 7 kPa (-30 to 30 inh2o) gauge

PM500-BG14K

Pressure measurement module -14 to 14 kPa (-50 to 50 inh2o) gauge

PM500-BG25K

Pressure measurement module -25 to 25 kPa (-100 to 100 inh2o) gauge

PM500-BG40K

Pressure measurement module -40 to 40 kPa (-6 to 6 psi) gauge

PM500-BG60K

Pressure measurement module -60 to 60 kPa (-9 to 9 psi) gauge

PM500-BG100K

Pressure measurement module -100 to 100 kPa (-15 to 15 psi) gauge

PM500-BG200K

Pressure measurement module -100 to 200 kPa (-15 to 30 psi) gauge

PM500-BG250K

Pressure measurement module -100 to 250 kPa (-15 to 36 psi) gauge

PM500-BG350K

Pressure measurement module -100 to 350 kPa (-15 to 50 psi) gauge

PM500-BG400K

Pressure measurement module -100 to 400 kPa (-15 to 60 psi) gauge

PM500-BG700K

Pressure measurement module -100 to 700 kPa (-15 to 100 psi) gauge

PM500-BG1M

Pressure measurement module -0.1 to 1 mpa (-15 to 150 psi) gauge

PM500-BG1.4M

Pressure measurement module -0.1 to 1.4 mpa (-15 to 200 psi) gauge

PM500-BG2M

Pressure measurement module -0.1 to 2 mpa (-15 to 300 psi) gauge

PM500-BG2.5M

Pressure measurement module -0.1 to 2.5 mpa (-15 to 400 psi) gauge

PM500-BG3.5M

Pressure measurement module -0.1 to 3.5 mpa (-15 to 500 psi) gauge

PM500-BG4M

Pressure measurement module -0.1 to 4 mpa (-15 to 600 psi) gauge

PM500-BG7M

Pressure measurement module -0.1 to 7 mpa (-15 to 1000 psi) gauge

PM500-BG10M

Pressure measurement module -0.1 to 10 mpa (-15 to 1500 psi) gauge

PM500-BG14M

Pressure measurement module -0.1 to 14 mpa (-15 to 2000 psi) gauge

PM500-BG20M

Pressure measurement module -0.1 to 20 mpa (-15 to 3000 psi) gauge

PM500-A120K

Pressure measurement module 120 kPa (16 psi) absolute

PM500-A160K

Pressure measurement module 160 kPa (23 psi) absolute

PM500-A200K

Pressure measurement module 200 kPa (30 psi) absolute

PM500-A350K

Pressure measurement module 350 kPa (50 psi) absolute

PM500-A700K

Pressure measurement module 700 kPa (100 psi) absolute

PM500-A1.4M

Pressure measurement module 1.4 mpa (200 psi) absolute

PM500-A2M

Pressure measurement module 2 mpa (300 psi) absolute

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