M & G calibration

PKII Pneumatic Deadweight Tester

ACCURACY

** Accuracy: ±(0.015% of reading*), ±(0.025% of reading*), or ±(0.05% of reading)

Repeatability: ± 0.005% of reading

Temperature Coefficient: ± 0.00167% of rdg / °C outside of 23°C

* *Down to 10 inH2O.*
±(0.05% of reading) below 10 inH2O

** *See ordering information for details.*

WEIGHT MASSES

Pressure Range: 0.145 to 30 psi / 1 to 200 kPa

Gravity: 9.80655 m/s² (International standard)
Local Gravity (Specify)

Available Units: psi, g/cm², mbar, bar, inH_2O, cmH_2O, mmHg

Water Column Reference: 20°C (ISA standard)
60°F (AGA standard, specify when ordering)

PRESSURE SOURCE

Source: Nitrogen or Instrument / Shop air ◆

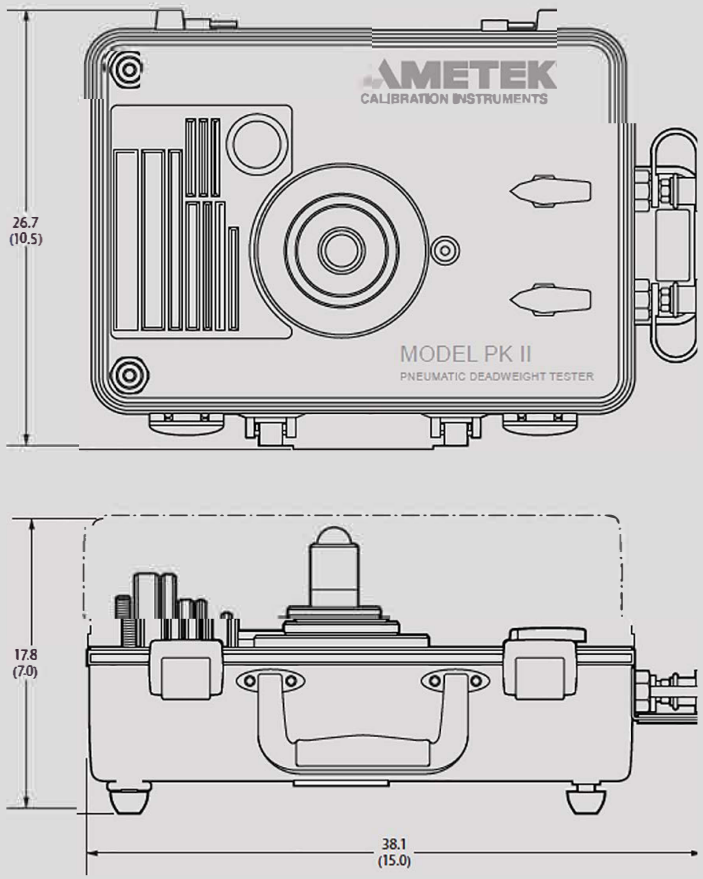
Maximum Supply Pressure: 100 psi / 689 kPa

Minimum Supply Pressure: 30 psi / 206 kPa ◆◆

Flow Rate: 1 scfh at 0.15 psi / 28 slh at 1 kPa output
1 scfh at 20 psi / 310 slh at 200 kPa output

◆ *ISA quality standard 7.3.*

◆◆ *Or 150% of desired output pressure.*



ALL DIMENSIONS IN CM (IN)

Models 304 and 404.

ENCLOSURE

Small Case Dimensions (L x W x H): **15 x 10.5 x 7 in (38.1 x 26.7 x 17.8 cm)**

Large Case Dimensions (L x W x H): **15 x 14.5 x 9 in (38.1 x 36.8 x 22.9 cm)**

Weight: **to 28 lb (12.7 kg)**

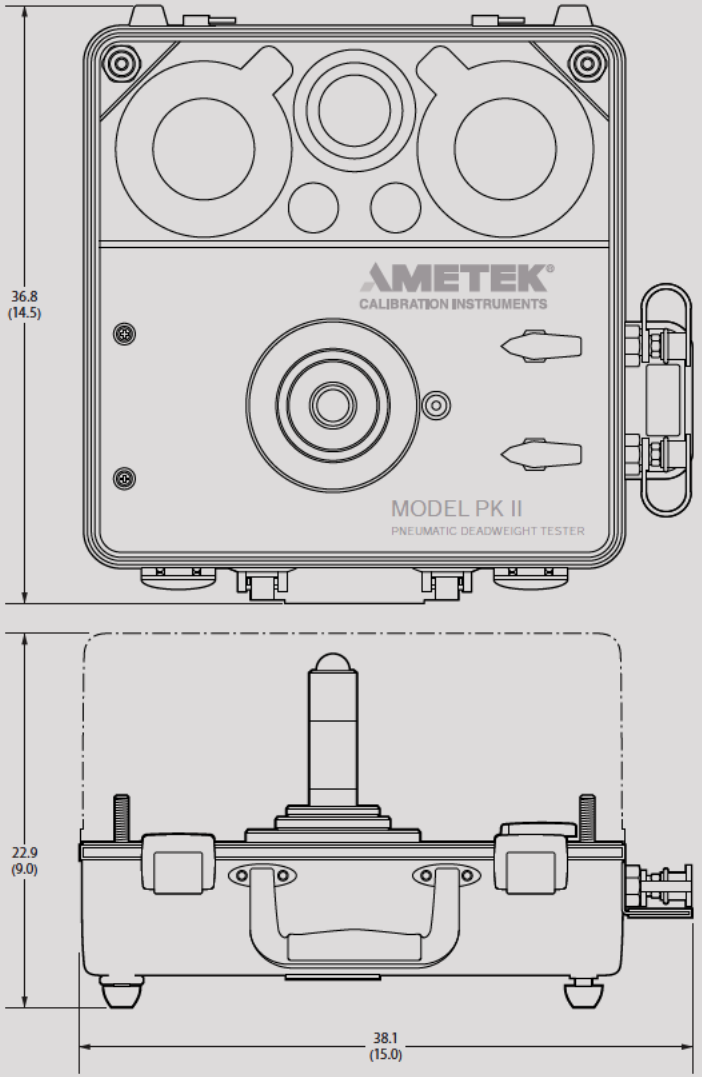
*See the **Models, Specifications, and Options** table for details.*

MATERIAL AND CONNECTION

Weight Masses: **Stainless Steel (as standard)**
Aluminum (small incremental weights)

Ball: **Ceramic**

Connection: **1/4" Female NPT (with installed adapter to 1/4 tube fitting)**



ALL DIMENSIONS IN CM (IN)

Models 20SS, 30SS, 250WC, 650WC, 654WC, 850WC, 854WC, 2000GM, 2010GM, 200N, 201N, 325MMHG, 500CM, 1000CM, 1500CM, 2000CM, 700MB, 2B, and 2B01.

M & G calibration

PKII Pneumatic Deadweight Tester

MODELS, SPECIFICATIONS, AND OPTIONS

Model	Certified Range	Increment	Weight Carrier and Ball Output
PK2-20-SS	1 to 20 psi	1 psi	1 psi
PK2-30-SS	1 to 30 psi	1 psi	1 psi
PK2-2000GM-SS	25 to 2000 g/cm²	25 g/cm²	25 g/cm²
PK2-2010GM-SS	10 to 2000 g/cm²	5 g/cm²	10 and 25 g/cm²
PK2-700MB-SS	10 to 700 mbar	20 mbar	20 mbar
PK2-2B-SS	0.02 to 2 bar	0.02 bar	0.02 bar
PK2-2B.01-SS	0.01 to 1 bar	0.005 bar	0.01 and 0.02 bar
PK2-200N-SS	2 to 200 kPa	2 kPa	2 kPa
PK2-201N-SS	1 to 200 kPa	0.5 kPa	1 and 2 kPa
PK2-250WC-SS	10 to 250 inH_2O	10 inH_2O	10 inH_2O
PK2-304WC-SS*	4 to 304 inH_2O	1 inH_2O	4 inH_2O
PK2-404WC-SS*	4 to 404 inH_2O	1 inH_2O	4 inH_2O
PK2-650WC-SS	10 to 650 inH_2O	10 inH_2O	10 inH_2O
PK2-654WC-SS	4 to 654 inH_2O	1 inH_2O	4 and 10 inH_2O
PK2-850WC-SS	10 to 850 inH_2O	10 inH_2O	10 inH_2O
PK2-854WC-SS	4 to 854 inH_2O	1 inH_2O	4 and 10 inH_2O
PK2-500CM-SS	10 to 500 cmH_2O	10 cmH_2O	10 cmH_2O
PK2-1000CM-SS	10 to 1000 cmH_2O	10 cmH_2O	10 cmH_2O
PK2-1500CM-SS	10 to 1500 cmH_2O	10 cmH_2O	10 and 25 cmH_2O
PK2-2000CM-SS	10 to 2000 cmH_2O	10 cmH_2O	10 and 25 cmH_2O
PK-325MMHG-SS	10 mmHg to 325 mmHg	1mmHg	10 mmHg

* *Small case models. All others are large case models.*

Calibration and Accuracy Options

(specify standard or local gravity)

Suffix	Accuracy	Data
(omit)	± (0.05% of reading)	○
/C	± (0.05% of reading)	●
-1B	± (0.025% of reading)	○
-18/C	± (0.025% of reading)	●
-1A	± (0.015% of reading)	○
-1A/C	± (0.015% of reading)	●

○ *Standard traceable certificate.*

● *Includes effective area, nominal pressure, and actual pressure data.*

ORDERING INFORMATION

Sample Part Numbers

PK2-20-SS ..... 0.05 % of reading, 1 to 20 psi range.

PK2-2B-SS-/C ..... 0.05 % of reading, 0.02 to 2 bar range, with test data.

PK2-850WC-SS-1A/C ..... 0.015 % of reading, 10 to 850 inH_2O range, with test data.

STANDARD DELIVERY

- Tester base with case
- Weight Set
- Manual
- NIST Traceable Certificate
- Tubing Kit P/N K-1082

ACCESSORIES

Gauge Pointer Puller Set P/N 1GT-99

Tripod P/N K-1562

Adapter to CPF Fitting Line P/N MPF-1/4TBM

CPF Hose P/N P/N MPH-1 (additional sizes and custom lengths available)

Small Incremental Weights for psi and inH_2O models only

Conversion Weight Sets convert to different model (eg. psi to bar)

COMPLEMENTARY PRODUCTS

AMETEK offers a wide range of products that work with the PKII:

- Fittings that connect without tools, safely and without leads
- Lightweight, super flexible high pressure hose
- Digital Test Gauge
- Reference Recorder
- Pressure Calibrator