

FUNCTIONAL SPECIFICATIONS

Pressure; gauge / compound ranges

bar -0.82 to 2 or 10
psi -12 to 30 or 150

Pressure; absolute ranges (available Q2, 2010)

bara 0.2 to 2 or 10
psia 3 to 30 or 150

Engineering units (built-in)

User selectable 15 units
(bar, mbar, MPa, kPa, inHg@0°C, mmHg@0°C, kg/cm², mmH₂O@4°C,
mmH₂O@20°C, psi, inH₂O@4°C, inH₂O@20°C, inH₂O@60°F, cmH₂O@4°C,
cmH₂O@20°C)

Pressure accuracy reference temp. (18 to 28°C / 65 to 82°F)

All pressure ranges ±0.020% RDG + 0.015% F.S.
Vacuum ±0.025% F.S.
F.S. (full scale) is the numerical value of the positive pressure range.
Accuracy includes hysteresis, nonlinearity, repeatability, reference standard uncertainty and typically 1-year long-term stability, operated inside the rated temperature span and pressure range. Frequently zeroing (gauge/compound) or entering of reference pressure (absolute) is required.

Pressure accuracy ambient temp. (-10 to 50°C / 14 to 122°F)

All pressure ranges ±0.030% RDG + 0.015% F.S.
Vacuum ±0.035% F.S.
F.S. (full scale) is the numerical value of the positive pressure range.
Temperature effect -10 to 0°C / 14 to 32°F ±0.005% F.S./°C.
Accuracy includes hysteresis, nonlinearity, repeatability, reference standard uncertainty and typically 1-year long-term stability, operated inside the rated temperature span and pressure range. Frequently zeroing (gauge/compound) or entering of reference pressure (absolute) is required.

Display

LCD Graphical (with light)
Display resolution 5 digits
Display update 3 times per second

RS232 communication interface

Connector LEMO
Serial 0-5 VDC, 9600 baud, 8 data, no parity, 1 stop
Protocol ASCII command language

Input / output (18 to 28°C / 65 to 82°F)

mA range, input, output and sink 0 to 24 mA
mA accuracy, input ±0.015% RDG + 2 µA
mA accuracy, output/sink ±0.015% RDG + 2 µA
Transmitter supply 24 VDC ±10%
Voltage measurement 0 to 30 VDC
Voltage accuracy ±0.015% RDG + 2mV
RTD range (ohms) 84 to 140 Ω
RTC accuracy ±0.015% RDG + 0.02 Ω
RTD range (temp.) -40 to 155°C / -40 to 311°F
RTD accuracy @ 0°C/32°F (temp.) ±0.10°C/0.18°F
HART® resistor 250 Ω
Peak hold capture 50 milliseconds
Switch test input 5V (<1mA)
Temperature effect outside 18 to 28°C / 65 to 82°F ±0.001% F.S./°C.

Media compatibility

Dry, clean, non corrosive gasses

Environmental

Operating temperature -10 to 50°C / 14 to 122°F
Storage temperature -20 to 60°C / -4 to 140°F
Ingress protection rating IP56

Pressure connection

All calibrators 1/8" BSP/NPT female (combined)
Adapters to 1/4" NPT female and 1/4" BSP female are included as standard.

Pressure overload

Overload alarm "OL" in display at approx. +20% F.S.

Power supply

Battery 8 x 1.5 VDC Alkaline
Battery type AA, LR6, MN1500, AM3
Battery lifetime .. More than 300 pump cycles to 10 bar/150 psi
Low battery indicator Yes

Instrument dimensions (LxWxH)

Calibrator 203x102x61 mm / 8x4x2.4 in
HPC600 weight (incl. battery) 920 g / 32.5 oz
Calibrator, shipping 560x350x180 mm / 22x13.8x7 in
Calibrator weight, shipping 3,2 kg / 113 oz

Miscellaneous

Compliance: EN 61326 : 2006 & CISPR 11, Edition 5.0 - 2009 Class "B"

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