

CRP101

High Accuracy Digital Pressure Gauge

Accuracy: up to 0.02% FS

The CRP101 digital pressure gauge is designed to calibrate pressure instruments: pressure transducers, transmitters, pressure gauges and switches.



General

With the state-of-the art of microprocessor technology the CRP101 is the most advanced portable digital pressure gauge in term of accuracy. Fully compensated in the operating temperature range its polynomial characterization grants accurate measurements in every point of each pressure range.

Features

- Pressure ranges from 200 mbar up to 1000 bar
- Accuracy up to 0.02 % FS
- Fully temperature compensated (14...122 °F / -10 °C to 50 °C)
- Large LCD display
- Up to 2 pressure channels simultaneously shown (see models)
- Active channel selection
- Backlight
- Contrast regulation
- Barometric option available (to switch

from gauge to absolute)

- min/Max pressure value continuously displayed
- leak-rate/stability continuously displayed
- Hold function for a specific pressure value
- Selectable filter weight
- Auto-power off /Auto-backlight off selectable
- Battery charge indication (%)
- Two colours LED for charge status (in charge- end charge)
- Offset selectable
- RS232 connection
- NiMh rechargeable battery

Technical Data

Measuring fluid

- Any fluid compatible with Stainless Steel

Type of material

- Wetted part: Stainless Steel



- Case: Stainless Steel

Operating pressure port
½" BSP M

Serial Port

RS-232 connection (in the rear panel)

Power supply

4 rechargeable AAA NiMh batteries

Power supply adapter: 230 Vac - 9 V dc

Power supply connector on the rear panel – 9 V dc - 500 mA

Temperature

- Compensated Temperature: 14°F to 122°F (-10°C...50°C)
 - Storage Temperature: -4°F to 158°F (-20°C to 70°C)
- Humidity: <95% non condensed

Pressure ranges

Pressure ranges absolute and gauge from -200...200 mbar up to 0...1000 bar (see ordering code next page).

Measuring unit:

20 measuring unit:

mbar - bar – Pa – hPa – kPa – MPa –
kg/cm² – kg/m² – mmHg – cmHg – mHg
– mmH₂O – cmH₂O – mH₂O – torr – atm
– psi – inHg – inH₂O – ftH₂O
(Hg@0 °C; H₂O @ 4°C; p_{atm}=101325 Pa)

Dimensions:

∅ 129 mm - depth: 47 mm

Weight: 0.5 kg

Scope of delivery

- Digital pressure gauge CRP101
- Calibration report
- Instruction manual

Options

- Carrying case
- Set of adapters
- Flexible Hose 1 m ¼ BSP F swivel – ¼ BSP M (or ¼ NPT M)
- Pneumatic hand pump
- Hydraulic hand pump
- Calibration certificate by EA authorized laboratory (Accredia, DAkkS, Cofrac, etc.)



Ordering code for CRP101

CRP101-																			
Model																			
One pressure channel		1																	
One pressure channel with barometric option		2																	
One pressure and one temperature channel (Pt100)		3																	
Pressure range																			
barometer: 0.75...1.15 bar abs (10...17 psi a)		1	0	1	B														
-200...200 mbar g (-6...6 inHg)		2	0	0	C														
0...500 mbar g (0...14.6 inHg)		5	0	0	G														
-1...1.5 bar g (-14.5...21 psig)		1	0	1	C														
0...1 bar g (0...21 psi g)		1	0	1	G														
0...1 bar a (0...21 psi a)		1	0	1	A														
0...7 bar g (0...100 psi g)		7	0	1	G														
0...20 bar g (0...290 psi g)		2	0	2	G														
0...100 bar g (0...1450 psi g)		1	0	3	G														
0...200 bar g (0...2900 psi g)		2	0	3	G														
0...400 bar g (0...5800 psi g)		4	0	3	G														
0...700 bar g (0...10000 psi g)		7	0	3	G														
Pressure mode																			
gauge					G														
bidirectional					C														
barometric					B														
absolute					A														
Accuracy																			
0.1 %					0														
0.05 %					1														
0.02 %					2														
Set of adapters																			
with					1														
without					0														
Panel mounting																			
with					1														
without					0														
Pneumatic hand pump -1...40 bar																			
with					1														
without					0														
Hydraulic hand pump 0...700 bar																			
with					1														
without					0														
Accredited calibration certificate																			
with					1														
without					0														
Pt 100 4-wire																			
with					1														
without					0														
Serial cable																			
with					1														
without					0														
Carrying case and flex hose 700 bar																			
with					1														
without					0														

Model CI-X-13-090313-01
P-CRP101-E-1117-1



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