

# 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.

Made in Italia



### 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
- Datalogger
- 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

P-CRP101-E-0919-3  
Model CRP-X-13-220219-02

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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 - 600 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/cm<sup>2</sup>  
- kg/m<sup>2</sup> - mmHg - cmHg - mHg - mmH<sub>2</sub>O  
- cmH<sub>2</sub>O - mH<sub>2</sub>O - torr - atm - psi - inHg  
- inH<sub>2</sub>O - ftH<sub>2</sub>O  
(Hg@0 °C; H<sub>2</sub>O @ 4°C; patm=101325 Pa)

Dimensions:  
Diam. 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 MVP-600
- Hydraulic hand pump M-10
- Calibration certificate by EA authorized laboratory (Accredia, DAkkS, Cofrac, etc.)

## Ordering code for CRP101

CRP101- [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - [ ]	
<b>Model</b>	
One pressure channel	1
One pressure channel with barometric option	2
One pressure and one temperature channel (Pt100)	3
<b>Pressure range</b>	
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
<b>Pressure mode</b>	
gauge	G
bidirectional	C
barometric	B
absolute	A
<b>Accuracy</b>	
0.1 %	0
0.05 %	1
0.02 %	2
<b>Set of adapters</b>	
with	1
without	0
<b>Panel mounting</b>	
with	1
without	0
<b>Pneumatic hand pump -1...40 bar</b>	
with	1
without	0
<b>Hydraulic hand pump 0...700 bar</b>	
with	1
without	0
<b>Accredited calibration certificate</b>	
with	1
without	0
<b>Pt. 100 4-wire</b>	
with	1
without	0
<b>Serial cable</b>	
with	1
without	0
<b>Carrying case and flex hose 700 bar</b>	
with	1
without	0

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