

# CRP101

## High Accuracy Digital Pressure Gauge with optional second channel: RTD or mA or V

Accuracy: up to 0.02% FS

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

Optional: second measuring channel  
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 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

Operating pressure port  
½" BSP M or 1/4" BSP M

Serial Port  
RS-232 connection (in the rear panel)

Power supply  
4 rechargeable AAA NiMh batteries  
Power supply adapter: 230 Vac - 12 V dc  
Power supply connector on the rear panel  
- 12 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)

#### Second channel (optional)

- barometer (600...1200 mbar abs) - to switch from gauge to absolute and from absolute to gauge with dedicated function.
- Current measurements: 0,000...25,000 mA
- Voltage measurements: 0,000...10,000 Vdc
- Temperature measurements: input for RTD 4-wire probe (see ordering code for the RTD probe) (°C, °F, K)

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)
- RTD 4-wire probe
- Pneumatic hand pump MVP-600
- Hydraulic hand pump M-10
- Calibration certificate by our accredited calibration laboratory

## Ordering code for CRP101

Model	CRP101-	-	-	-	-	-	-	-	-	-	-	-	-	-
one pressure channel	1													
one pressure channel with barometric option	2													
one pressure channel and one temperature channel	T													
one pressure channel and one 0...20 mA channel	A													
one pressure channel and one 0...10 V channel	V													
<b>Range</b>														
barometric: 0.600...1.200 bar abs	1	0	1	B										
-200...200 mbar g	2	0	0	C										
0...500 mbar g	5	0	0	G										
-1...1.5 bar g	1	0	1	C										
0...1 bar g	1	0	1	G										
0...1 bar a	1	0	1	A										
0...7 bar g	7	0	1	G										
0...20 bar g	2	0	2	G										
0...100 bar g	1	0	3	G										
0...200 bar g	2	0	3	G										
0...400 bar g	4	0	3	G										
0...700 bar g	7	0	3	G										
0...1000 bar g	1	0	4	G										
<b>Pressure mode</b>														
gauge				G										
bidirectional				C										
barometer				B										
absolute				A										
<b>Pressure accuracy</b>														
0.1 %				0										
0.05 %				1										
(0,025% for FS≥200)				2										
<b>Set of adaptors</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 with flexible hose 700 bar</b>														
with														1
without														0

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