

## Model CRS

### Waterproof Hand-Held Pressure Measuring Gauge

CRS hand-held instrument is a valuable tool for demanding pressure measurements. Extremely robust plug-in connections, the silicone protection cover, backlight, a waterproof and resistant design allow its usage in harsh industrial and field environments.



#### General

The best quality-cost benefit available in the market. The CRS Series has a large configuration possibility, One device for any measuring range (-1000 mbar ... 1000 bar) Fully interchangeable pressure probes.

Available Models:

CRS-5130 device with 1 sensor connection.

CRS-5150 device with 1 sensor connection, analog output and data logger

CRS-5155 device with 2 sensor connections, analog output and data logger

Applications:

- Industry and craft
- HVAC: heating, ventilation, air-conditioning
- Leakage test / pressure test
- Chimney draft measurement: under pressure
- Leakage test at buildings (i.e. 4 Pascal test)

- Measurements of gas and oil rings
- Automobile trade
- Hydraulic analysis (peak pressure)

#### Features

- Waterproof design
- 4 ½ digits large display 7 segment, illuminated white.
- 4 measurements / s or 1000 measurements / s with peak value.
- Available models with data-logger & analogue output 0-1 V.
- 1 or 2 sensors depending on the model
- Transducers for air and non aggressive gases available
- Tare function
- Min/Max pressure value
- Barometric option available
- USB connection
- Measuring unit:  
mbar – bar – Pa – kPa – MPa – mmHg  
–mH<sub>2</sub>O – psi – inHg

## Additional Features

- **Additional Display for Battery:** Bar graph display
- **Background Illumination:** duration adjustable (off, 5 s ... 2 min.)
- **Adjustment:** offset / slope adjustable in menu
- **User-defined displayed unit: (user/ 5150/55)** conversion to any unit with help of linear factor
- **Leakage test function (5150/55):** leak rate display, leak rate alarm (/s, /min, /h)
- **Air velocity / flow volume (5150/55):** Pitot tube measurement (accessories)
- **peak-detect (Peak value memory):** The min- / max- value memory stored unfiltered pressure peaks  $\geq 1$  ms
- **Logger function** cyclic: 10.000 data sets (5150), 8.000 data sets (5155) - manual: 1.000 data sets (with measuring point input, 40 adjustable measuring point texts or measuring point numbers)

## Technical Specification

- **Numbers of Digits:** 4 ½
- **Accuracy:** up to  $\pm 0,1$  % f.s.  $\pm 1$  digit
- **Working conditions** -25 ... +50 °C, 0 ... +95 % RH (non-condensing),
- **Supply:** 2 x AAA battery, life 500 h
- **External Supply** 4-pole bayonet connector for serial interface, \* supply (with accessories: USB adapter USB 5100)
- **Analog Output** 0 - 1 V, freely adjustable, connection with 4-pole bayonet connector, resolution 12 bit
- **Housing:** impact-resistant ABS plastic housing with pop-up clip. Protection IP65 / IP67 **CRS 315x only:** pop-up clip for table top or suspended use

- **Dimensions: L x W x H:**  
160 x 86 x 37 mm
- **Weight:** 250 g approx. Including battery and protection cover.

## PLASTIC PRESSURE SENSORS WITH TUBE CONNECTION



### Differential Pressures

(both pressures are connected) as well as for relative pressure measuring (pressure / vacuum, on terminal is left open)

Range	Resolution	Over press.
-1.999 ÷ 2.500 mbar	0.001 mbar	max. 200 mbar
-19.99 ÷ 25.00 mbar	0.01 mbar	max. 300 mbar
-199.9 ÷ 350.0 mbar	0.1 mbar	max. 1 bar
-1000 ÷ 2000 mbar	1 mbar	max. 4 bar
-1.00 ÷ 10.00 bar	10 mbar	max. 10.34 bar

### Absolute Pressures

for absolute pressure measuring

Range	Resolution	Over press.
0 ÷ 1300 mbar abs	1 mbar	max. 4 bar abs
0 ÷ 2000 mbar abs	1 mbar	max. 4 bar abs
0 ÷ 7 bar abs	10 mbar	max. 10.34 bar abs

## STAINLESS STEEL PRESSURE SENSORS



### Absolute Pressures

for absolute pressure measuring

Range	Resolution	Over press.
0 ÷ 1000 mbar abs	1 mbar	max. 5 bar abs
0 ÷ 2500 mbar abs	1 mbar	max. 10 bar abs
0 ÷ 4000 mbar abs	1 mbar	max. 17 bar abs
0 ÷ 6000 mbar abs	1 mbar	max. 35 bar abs
0 ÷ 10.00 bar abs	10 mbar	max. 35 bar abs
0 ÷ 16.00 bar abs	10 mbar	max. 80 bar abs
0 ÷ 25.00 bar abs	10 mbar	max. 50 bar abs

### Relative Pressures

for relative pressure measuring (pressure / vacuum)

Range	Resolution	Over press.
0.0 ÷ 100 mbar	0.1 mbar	max. 1 bar
0.0 ÷ 250 mbar	0.1 mbar	max. 2 bar



0.0 ÷ 400 mbar	0.1 mbar	max. 2 bar
-1000 ÷ 1500 mbar	1 mbar	max. 10 bar
-1000 ÷ 3000 mbar	1 mbar	max. 17 bar
0 ÷ 1000 mbar	1 mbar	max. 5 bar
0.0 ÷ 2500 mbar	1 mbar	max. 10 bar
0.0 ÷ 6000 mbar	1 mbar	max. 35 bar
0.0 ÷ 10 bar	10 mbar	max. 35 bar
0.0 ÷ 25 bar	10 mbar	max. 50 bar
0.0 ÷ 40 bar	10 mbar	max. 80 bar
0.0 ÷ 160 bar	0.1 bar	max. 320 bar
0.0 ÷ 400 bar	0.1 bar	max. 800 bar
0 ÷ 1000 bar	1 bar	max. 1500 bar

\*other ranges on request

## Scope of Delivery

- Pressure gauge CRS
- Calibration report
- Instruction manual

## Accessories and Options

- Connection cable mod. K31, screened with integral 6 pin mini DIN plug and M16-socket (IP 54), length 1.2 m
- Connection cable mod. K51, 1 m PVC connection cable, screened with 7-pin bayonet plug cable and plug connection water proof acc. to IP 67 and M16-socket
- Carrying case
- Accredited Calibration Certificate
- Complete solution includes Device, Case and accredited certificate

We reserve the rights to alter at any time the technical specifications without notice.



Model CI-X-13-090313-01  
P-CR-E-11116-1