



Intrinsically-Safe Pressure Measuring instrument Ex-CP 100



The Ex-CP 100 enables pressure measurements to be made in Ex-hazardous areas. Excellent handling combined with extreme sturdiness simplifies field measurements. Thanks to its ergonomic design and low weight, the device sits easily and comfortably in the hand. Both internal and external sensors permit measuring ranges of 0-70 and/or 0-700 bar. Variations for measuring overpressure, absolute and differential pressure are therefore possible. The readout values are shown as 5-digit figures on a large LCD. 16 pressure units can be called up by a keystroke: mbar; bar; psi; Pa, hPa, kPa, Mpa, kg/cm², in Hg, mmHg, mHg, mH₂O, inH₂O, ftH₂O (both 4° and 20°). Other adjustable functions are min./max. display; leak test, filter and tare. A power management feature indicates weak battery capacity and automatically switches the appliance off after 10 mins. The ambient temperature can be displayed by a keystroke. The version with integrated sensor has a G 1/8 internal pressure connection. An adapter for a 6mm cable is screwed in.

For measuring relative, absolute and differential pressure in Ex-hazardous areas.

- Large multi-function display
- Lightweight, robust housing
- Measuring accuracy of 0.1%
- Leak test
- Max./min. display
- 16 adjustable pressure units.

Ex-data:

Ex designation:
 Ⓜ II 1 G EEx ia IICT4
 EC-type-examination certificate no.
 Baseefa 03 ATEX 0342

Standard delivery:

- Ex-CP 100
- Batteries
- Carrybag
- Calibration certificate

Optional accessories:

- External sensors
- 411 Hand Pump (see Page 37)



Pressure media

Overpressure, absolute pressure:

Gases and liquids compatible with 1.4401 stainless steel

Internal differential pressure:

Dry, non-corrosive gases

External differential pressure:

positive connection: Gases and liquids compatible with 1.4401 stainless steel;
 negative connection: Dry, non-corrosive gases

Technical data

Working temperature:	-10°C +50°C
Measuring accuracy:	± 0.1% from measuring range
Temperature influence:	0°C....+5°C: ± 0.02% from readout value/°C
Additional: at > 1 bar abs:	± 0.02% from final value/°C
Additional: at > 1 bar abs:	± 0.05% from final value/°C
Protection rating:	IP 54
Supply:	3 x AA design tested
Weight:	approx. 350g
Dimensions:	190 x 190 x 36 mm

Measuring range Internal sensor External sensor

0-70, 200 mbar	Differential	
0-350 mbar		Over/absolute/differential
0-700 mbar	Over	Over/absolute/differential
0-1 bar	Differential	Over/absolute/differential
0-2 bar	Over/absolute	Over/absolute/differential
0-3.5 bar		Over/absolute/differential
0-7 bar	Over	Over/absolute/differential
0-10 bar		Over/absolute/differential
0-20 bar	Over	Over/absolute/differential
0-35 bar		Over/absolute/differential
0-70 bar		Over/absolute
0-135, 200, 350, 700 bar		Absolute