

---

# Digital Pressure Calibrator

---

PC705M

- *Range: 0 to 700 Bar*
- *Accurate to  $\pm 0,05\%$  FS*
- *RS485 interface*
- *EX/IS approved for hazardous areas*
- *Portable - light weight*



**High accuracy and stability** - is achieved by use of a piezoresistive transducer with a built-in temperature compensation. Unlike some other pressure calibrators, accuracy is maintained when decreasing pressure which makes the unit ideal for verification of hysteresis. All units are calibrated in positive as well as in negative direction.


**Compact and rugged** - originally designed for use on offshore drilling rigs, the pressure calibrators offer reliable performance under the most severe conditions.

**Portable** - the low weight of only 8 kg makes the units ideal for one-site calibration.

**Traceable** - each unit is calibrated against precision pressure equipment which is traceable to national standards and each unit is supplied with a calibration certificate.

**Simple and easy** - test pressure is established by the integrated hydraulic pump, and the calibration pressure is read on the graphical LCD display. There is no need for fragile reference gauges.

## Technical information

Pressure Range	Range: 0...700bar Resolution Display: 50mbar Overpressure: 1100 bar
Engineering units	bar, mbar, hPa, kPa, MPa, PSI, kp/cm <sup>2</sup> , cmH <sub>2</sub> O, mH <sub>2</sub> O, inH <sub>2</sub> O, ftH <sub>2</sub> O, mmHg, inHg
Number of Digits of the LCD Display	5 digit
Measuring rate (Display LCD)	2 x per second
Measuring Rate via Serial Interface	Pressure up to 15 x per second
Storage- / Operating Temperature	-10...60 °C
Medium Temperature Pressure Sensor	-20...60 °C
Compensated Temperature Range	0...50 °C
Battery	3 V battery, Typ CR 2430
Battery Life	Approx. 2'000 hours continuous operation
Pressure Connection	G1/4"
Bus Interface <sup>1</sup>	RS485
Electrical Connection <sup>1</sup>	External supply and RS485 communication via Fischer D103A054, flange socket fits with PC-converter cable K-114A (USB to RS485)
External Supply <sup>1</sup>	8...28 VDC
Temperature Measurement	Accuracy typ. 0,5 °C
Material in Contact with Media	Stainless Steel (AISI 316L), Viton® O-ring
Protection	IP65
Diameter x Height x Dept (approx.)	345 x 160 x 180 mm
Weight (approx.)	7,5 kg
EEx/IS certification	 II 2 G EX ia IIC T6 Gb
Certification file	PTB 05 ATEX 2012 X and IECEx PTB 13.0028X

<sup>1</sup> In the Ex-Zone, the gauges are not allowed to be supplied externally, nor can they be connected via the RS485 interface

*IKM Instrutek AS is a leading supplier for calibration of instruments for vessels. We offer a maintenance scheme for our customers calibration kit, including a pool of re-certified test cases, ready to be shipped to vessels.*

*We manage the system for our customers and ensure that traceable and certified instruments are available anytime. The Marine Test Case, Mini System, covers E0 requirements from SOLAS*

*We offer custom designed cases including a wide range of instruments including certificates and approvals for: Pressure, Temperature, Electrical and Gas*

*IKM Instrutek AS provide test cases, calibration- and service world-wide through a network of distributors and service partners.*

Distributed by:

### IKM Instrutek AS

Elveveien 28

3262 Larvik, Norway

T: +47 33 16 57 00

F: +47 33 16 57 01

E: marineservice.ikminstrutek@IKM.no

[www.IKM.com](http://www.IKM.com)

