
Pressure Calibrator

PCA205M

- Jacket type hydraulic pump, 0 - 300 bar
- Accuracy < 0.1 % FS, selectable bar/psi read out
- 1000 hours continuous operation, auto power off
- Portable unit well suited for calibration on site
- Protection class: IP65
- Type approved by DNV-GL for use onboard ships
- Designed for marine applications to comply with ISM Code regulations



The **PCA205M** - digital pressure calibrator is a microprocessorcontrolled, accurate and versatile digital pressure measuring and calibration instrument with integrated fast peak-, max.- and min.- function. Hydraulic test pressure is generated by the integrated hydraulic pump while read out is done on the digital indicator.

The digital instrument is used in two modes:

MANO-Mode: The pressure is measured twice per second and displayed. The top display indicates the actual pressure, the bottom display shows the MAX.- or MIN.- pressure since the last RESET.

PEAK-Mode: The pressure is measured 5,000 times per second and is brought to the display twice per second.

The **PCA205M** has a ZERO function that allows the user to set any value as a new zero reference. Barometric pressure variations can thus be compensated. The digital pressure meter is supplied with an internal battery with 1000 hours continuous operation in MANO-Mode, guaranteed by the AUTO SWITCH-OFF function, which activates if no key inputs are detected within the previous 15 minutes.

This digital pressure calibrator finds its specific utilization in marine industry, onboard ships and mobile offshore units and in general manifold industrial fields.

The **PCA205M**, supplied with all relevant certificates, will serve as a valuable first line pressure calibration and measurement instrument.

The light weight of the unit of only 3,2 kg makes it easy to perform calibration on site. The unit is supplied with a 3 m high pressure hose and a 40 mm test flange.

Technical information

	PCA205M
Pressure range (R)	0 - 300 bar
Accuracy RT (room temperature)	< 0,1 %FS
Total Error Band (0 to 50 °C)	< 0,2 % FS
Storage-/ Operating Temperature	-20 to 70 °C / 0 to 50 °C
Compensated Temperature Range	0 to 50 °C
Power supply	3.0V type CR2430
Auto power off	15 min.
Battery life	1000 hours continuous operation MANO-Mode 150 hours of continuous operation in PEAK-Mode
Standard process coupling	¼" BSP MALE, Swivel
Dimensions	458mm (l) x 98mm (w), 188mm (h)
Weight	3,2 kg
Display	LCD
Selectable read out	bar, mbar/hPa, kPa, MPa, PSI, kp/cm2
Peak function	Max. or Min.
Zero function	Yes
Readings per second	5000 (PEAK mode)
Pressure test hose	3m, M16x1,5mm, 700 bar
Protection class (CEI 529)	IP65

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.

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