



ACE INSTRUMENTATION

# Calibration Instruments



- Jacket type hydraulic pump, 0 - 300 bar
- Accuracy < 0.2 % FS, selectable bar/psi read out
- Portable unit well suited for calibration on site
- Type approved by DnV for use onboard ships
- Designed for marine applications to comply with ISM Code regulations

## PCA205M Pressure Calibrator

The PCA205M - digital pressure calibrator is a micro-processor controlled, 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 off-shore 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.



Certificate Number: 46016

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# Technical Information

|                                |   |
|--------------------------------|---|
| Pressure range (R)             | PCA205M                                       |
| Accuracy, linearity/hysteresis | 0 - 300 bar                                   |
| Internal resolution            | < $\pm 0.20$ % FS                             |
| Readings per second            | 10.000 div.                                   |
| Working temperature range      | 5000 (PEAK mode)                              |
| Storage temperature range      | 0 to +50°C                                    |
| Zero function                  | -20 to +70° °C                                |
| Peak function                  | Yes   |
| Auto power off                 | Max. or Min.                                  |
| Power supply                   | 15 min.                                       |
| Battery life                   | Battery                                       |
|                                | 1000 hours continuous operation in MANO-Mode. |
|                                | 150 hours continuous operation in PEAK-Mode.  |
| Lithium battery                | 3.0V size CR2430                              |
| Display                        | LCD   |
| Selectable read out            | bar, mbar/hPa, kPa, MPa, PSI, kp/cm2          |
| Pressure test hose             | 3m, M16x1,5mm, 700 bar                        |
| Protection class (EN 60529)    | IP65  |
| Dimensions                     | 458mm (l) x 98mm (w), 188mm (h)               |
| Weight                         | 3.2 kg  |

Note: Due to continuous product improvements, published specifications may change without notice.



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