



# Calibration Instruments



- *Accurate to 0.05% full scale*
- *RS232 interface*
- *Windows® based software*
- *No cumbersome weights*
- *Ex/IS approved for hazardous areas*
- *Portable*



## PC700 Pressure Calibrator

High accuracy and stability is achieved by use of a special thin film strain gauge 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 on-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.

Semi-automatic calibration – by use of PreCal Windows® based software full documentation and record keeping of calibrations are easily carried out.

Simple and easy – test pressure is established by the integrated hydraulic pump, and the calibration pressure is read on the 4-digit LCD display. There is no need for fragile reference gauges.

# Technical information

	PC700
Pressure ranges	0 to 700 Bar
Accuracy – combined*	Three models: $\pm 0,05\%$ , 0,1% and 0,15% FS
Operating temperature	-10 to 50 °C
Temperature drift	$\pm 0.02\%$ FS
Dynamic response (PEAK-HOLD)	50 m/sec.
Process temperature	-10 to +60 °C
Test connection	16 x 1.5 mm
Power supply	Alkaline 6 F22 9V battery
Operation time	Approx. 80 hours
Functions	PEAK-HOLD, TEST, ZERO
Engineering units	Bar/ PSI or KPA/ kg/cm <sup>2</sup>
Weight	8 kg
Interface	RS232
Pressure media	Oil ( volume 0,5L )
EEx/ IS certification	EEx ia IIC T5 

\* Combined non-linearity, hysteresis and repeatability. NOTE: Due to continuous product improvements, published specifications may change without notice.

## Pressure media

The pressure calibrators use a special formulated hydraulic oil which reduces wear under high pressure.

## Pressure transducer technology

By replacing the traditional strain gauge transducers with a special developed thin film strain gauge, a remarkable performance has been achieved. The thin film strain gauge has approximately 1/12 of the stiffness of a bonded strain gauge giving an excellent accuracy, long term stability, extended lifetime and reduced fatigue.

The thin film transducer is made by a process in which a molecular compound takes place and gives the transducer a temperature and long term stability which is approximately 10 times better than most other transducers.

## Semi-automatic calibration

The PreCal calibration software enables easy record keeping of all calibrations carried out. The software is designed to comply with ISO9000 requirements. The software presents the calibration result in either a graphic or table format with information on deviations found.