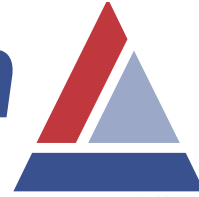




# Calibration Instruments



- Range 0 to 700 Bar
- Input for external sensor
- Accurate to  $\pm 0.03\%$  FS
- mA, V and switch test input
- History log
- Programmable engineering units
- RS232 interface
- EEx/IS approved for hazardous areas
- Portable – light weight



APPROVAL  
A-8857

## PC705 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.

**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 graphical LCD display. There is no need for fragile reference gauges.



# Technical information

PC705	
Pressure ranges	0 to 700 Bar
Accuracy	± 0,03% FS. (10-40°C), temperature effects: 0,001% of reading/°C
mA input	0-30mA (± 0,03% FS.) **
V input	0-15VDC (± 0,05% FS.) **
	** Ambient temperature 25°C, temperature effects: ± 0,008% /°C
History log	30 sensors, 10 points each
Operating temperature (ambient)	0 to +50°C
Process temperature	-20 to +80°C
Pressure overload	FS x 1,5
Wetted parts	Hastelloy C-22
Housing	Anodised aluminium
Pressure media	Oil
Operating time on batteries	Approximately 35 hours
Functions	Programmable: Input mA/mV/V/Switch Test, Range, Conversion, Engineering Units, Filter. Min/Max/Tare, History Log, Internal/External Sensor, Battery Indicator, Leak Test, Selectable Language (optional), Remote Operation (optional).
Engineering units	Bar, kPa, Mpa, atm, psi(lb/in <sup>2</sup> ), at(kgf/cm <sup>2</sup> ), torr, mHg at 0°C, inHg at 32°F, cmH <sub>2</sub> O at 4°C, mH <sub>2</sub> O at 4°C, inH <sub>2</sub> O at 39,2°F
Overall dimensions	345 x 160 x 180 mm (w-h-d)
Weight	8,1 kg
EEx / IS certification	EEx ia IIC T4  , NEMKO 02ATEX 1374X
ATEX production notification	NEMKO 02ATEX445Q ATEX according to directive 94/9/EC

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

## 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.

## 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.

*Scan-Sense AS is a Norwegian company specialising in design and manufacturing of high quality sensors/instrumentation and related software for measurement of temperature, pressure, load and force.*

*Scan-Sense AS supplies portable temperature calibrators from -40°C to 1200°C and a range of EEx/IS approved portable pressure calibrators from vacuum to 1200 bar.*

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