



Calibration Instruments

- Portable pressure calibrator
- High accuracy
- Auto-range function
- Robust self-contained unit
- Portable - light weight
- "Peak-hold" function
- Stainless steel and/or hastelloy C wetted parts
- RS232 interface
- EEx/ IS-approved for hazardous areas



PM105/110H/110L - Pressure Calibrator

PM105 is a self-contained portable pressure meter for commissioning, service, calibration and maintenance. The unit is light weight and ergonomically designed for field applications. PM 105 is supplied with integral pressure sensor, signal-conditioning electronics, 4-digit display and internal battery. The optional PreCal Windows based software will enable semi automatic calibration and generate test reports which will comply with ISO 9000 requirements.


PM110L - for low pressure calibration
Using PM105 together with a small hand pump we offer you a complete, portable, one-hand operated pressure calibrator named PM110L. The hand pump mounted

directly on the pressure inlet of PM105 makes it possible to generate pressures from -0,8 to + 20 Bar (G) using dry air as pressure medium. PM110L is supplied in a case with a complete kit of test hose and fittings.

PM110H - for high pressure calibration
Using PM105 together with a hydraulic pump we offer you a unique handheld high pressure calibrator named PM110H. Originally designed for use on North sea platforms, the PM110H is extremely rugged and is made for field use. Using oil or water as a pressure medium, the PM110H generates pressures from 50 to 700 Bar (G) with accuracy of 0,05% FS. PM110H is supplied ready to use in carrying case complete with hose and fittings.



Technical information

Pressure ranges	PM105: -0.8 to 2, 10, 20, 50, 100, 200, 300, 450 and 700 Bar PM110L: -0.8 to 2, 10 and 20 Bar PM110H: 0 to 50, 100, 200, 350 and 700 Bar
Accuracy	Two models: $\pm 0.1\%$ and $\pm 0.05\%$ FS, combined error. (Including non-linearity, hysteresis and repeatability). (2 Bar only $\pm 0.1\%$ FS)
Temperature drift	$\pm 0.02\%$ FS.
Dynamic response (PEAK-HOLD)	50 msec
Operating temperature (ambient)	-10°C to +50°C
Process temperature	-10°C to + 60°C
Pressure inlet	1/4" BSP F
Pressure overload	FS x1,5
Wetted parts	SS15-5PH, 17-4PH or hastelloy C-22 (optional)
Housing	Anodised aluminium
Pressure media	PM110L: All liquids/gas compatible with wetted parts alloy PM110H: Oil or destilated water (to be specified when ordering)
Operating time on batteries	Approx. 20 hours (9V Nicad rechargeable battery)
Functions	PEAK-HOLD, TEST, ZERO
Engineering units	Bar/ PSI or KPA/ kg/cm ²
Overall dimensions	92 x 98 x 33 mm (w-h-d)
Weight	PM105: 550 g PM110L: 1,300 g PM110H: 3,500 g
FFx/ IS certification	FFx (a IIC T5) 

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

PM105: is designed for robust field applications and 9 standard ranges are available to cover the range -0,8 to 700 bar. A "PEAK -HOLD" function makes it possible to detect pressure transients with a pulse width of 50 mSec. Together with the available PreCal software all measurements can be transferred and stored in a logging system.

PM110L and PM110H: are equipped with a CPU-based electronics and a 4-digit display. An internal temperature sensor compensates for errors normally caused by temperature drift. Combined with a new auto-range facility, this ensures excellent accuracy over the pressure range.

The three units are delivered with RS 232 interface and EEx/ IS approval for use in hazardous areas.

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 approved portable pressure calibrators from vacuum to 700 bar.