

# PM305 PRESSURE CALIBRATOR KIT

## INTRINSICALLY SAFE, PRECISION DIGITAL REFERENCE GAUGE AND HAND PUMP

The PM305 pressure calibration kit includes all you need to calibrate pressure gauges, sensors and switches up to 17,500 PSI (1200 bar) in one, portable, compact kit. Everything you need to perform pressure calibrations, from the calibrator head to hand pump and adapters, is included here.

This pressure calibration kit is based around the Tek Know PM305 pressure calibrator, a self-contained and portable pressure calibrator and pressure meter appropriate for commissioning, service, and maintenance. The Tek Know PM305 is intrinsically safe, lightweight and ergonomically designed for field applications. The Tek Know PM305 features an integral pressure sensor, signal conditioning electronics, a graphic display, and an internal battery. The Tek Know PM305 pressure calibrator can be supplied in ranges up to 17,500 PSI (1200 bar) with an internal or external sensor. The Tek Know PM305 Pressure Calibrator has been calibrated to precision pressure equipment traceable to national standards and is also ATEX approved for hazardous locations.



### Kit Includes

- PM305 Pressure Calibrator
- Hand Pump
  - TP1-40 pneumatic hand pump 150 to 600 PSI
  - HTP1-700 hydraulic hand pump 750 to 10,000 PSI
  - HTP1-1000 hydraulic hand pump 15,000 to 17,500 PSI
- Hose Kit
- Adapter Kit
- Carrying Case
- PRV Relief Valve (for hydraulic models only)
- NIST Calibration Certificate

### Calibrator Head Features

- Pressure Range to 17,500 PSI (1200 bar)
- Input for External Sensor
- Includes all components needed for pressure calibrations
- Accurate to  $\pm 0.03\%$  FS
- mA, V, and Switch Test Input
- History Log
- EEx/IS Approved for Hazardous Areas
- Portable and Lightweight
- Intrinsically safe

## CALIBRATOR HEAD SPECIFICATIONS

PRESSURE RANGES	150 to 17,500 psi (-0.8 to 1200 Bar)
ACCURACY	$\pm 0.03\%$ FS (10-40°C) (temperature effects: 0.001% of reading/°C)
MA INPUT	0-30mA ( $\pm 0.03\%$ FS) (Ambient 25°C, temperature effect: $\pm 0.008\%$ /°C)
V INPUT	0-15VDC ( $\pm 0.05\%$ FS)(Ambient 25°C, temperature effect: $\pm 0.008\%$ /°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	Anodized aluminum
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
EEX / IS CERTIFICATION	EEx ia IIC T5
ATEX PRODUCT NOTIFICATION	NEMKO 02ATEX445Q ATEX according to directive 94/9/EC