

## T-140

## Pressure Calibrator/Manometer

### Description

The T-140 Pressure Calibrator/Manometer is designed to give the technician laboratory-grade accuracy in a rugged, easy-to-use instrument. The T-140 is available in several ranges — 10" H<sub>2</sub>O, 200" H<sub>2</sub>O, and 30, 100, 300, and 3,000 PSI. Operation of these calibrators is made easy through the use of a sealed membrane keypad with simple controls. When combined with a Martel Hand Pump, the T-140 Kit makes a great package to handle your pneumatic calibration requirements.

### Features

- High accuracy gauge or differential capability
- Rugged, dust tight, water-resistant case
- Isolated SS sensors on 300 PSI and 3,000 PSI units
- Easy to read Super-Twist LCD
- Intuitive controls make operation easy, even for infrequent users
- Powered by a common 9 Volt alkaline battery
- Supplied in full rubber boot



## T-140 Specifications (1 year at 23 °C ±5 °C; % of reading unless otherwise noted)

<b>Ranges</b>	-14 to 30 PSIG/PSID -14 to 100 PSIG/PSID -14 to 300 PSIG -14 to 3000 PSIG ±10" H <sub>2</sub> O ±200" H <sub>2</sub> O (0-7 PSI)
<b>Accuracy</b>	18 °C to 28 °C ±10" H <sub>2</sub> O ±0.1% of FS ±200" H <sub>2</sub> O ±0.05% of FS 30 PSI ±0.05% of FS 100 PSI ±0.05% of FS 300 PSI ±0.05% of Rdg ± 2 LSD 3,000 PSI ±0.05% of Rdg ± 2 LSD
<b>Resolution</b>	±10" H <sub>2</sub> O 0.001" H <sub>2</sub> O ±200" H <sub>2</sub> O 0.01" H <sub>2</sub> O 30 PSI 0.001 PSI 100 PSI and 300 PSI 0.01 PSI 3,000 PSI 0.1 PSI
<b>Engineering Units</b>	PSI, inH <sub>2</sub> O, cmH <sub>2</sub> O, mmH <sub>2</sub> O, mH <sub>2</sub> O, FtH <sub>2</sub> O, mBAR, BAR, inHg, mmHg, cmHg, kPa, kg/cm <sup>2</sup> , TORR, ATM
<b>Temperature Stability</b>	±0.01% FS/°C; 0 °C to 18 °C, and 28 °C to 50 °C
<b>Maximum Overpressure</b>	Ranges >100 PSI 2x Ranges <30 PSI 3x
<b>Ports</b>	Two 1/8" FNPT
<b>Media</b>	30/100 PSI, 10" H <sub>2</sub> O, non-corrosive gas or 200" H <sub>2</sub> O liquids 300/3,000 PSI all media
<b>Environmental</b>	Operating Temperature 0 °C to +50 °C Storage Temperature -20 °C to +60 °C

<b>Power Requirements</b>	9 VDC
Battery	1, 9V alkaline battery; 006P/ IEC 6F22/NEDA1604

<b>Mechanical</b>	
Dimensions	5.7" H x 3.5" W x 1.43" D (144.7 x 80.0 x 36.3 mm)
Weight	14 ounces (396 gms.)

### MECP-100 Hand Pump

The MECP-100 Hand Pump is a simple to use pressure and vacuum source for calibrating process control instrumentation.

An optional in-line filter is available for applications where contaminants may enter the pump.



MECP-100 Hand Pump  
(shown with optional in-line filter)



MECP-500 Hand Pump

### Ordering information

Pressure Calibrator/Manometer; ±10" H <sub>2</sub> O	T-140-10"
Pressure Calibrator/Manometer; ±200" H <sub>2</sub> O	T-140-200"
Pressure Calibrator/Manometer; -14 to 30 PSI	T-140-30
Pressure Calibrator/Manometer; -14 to 100 PSI	T-140-100
Pressure Calibrator/Manometer; -14 to 300 PSI	T-140-300
Pressure Calibrator/Manometer; -14 to 3000 PSI	T-140-3000
Hand Pump; -14 to 100 PSI	MECP-100
Hand Pump; -14 to 500 PSI	MECP-500
Hand Pump; -14 to 3000 PSI	MECP-3000
Pressure Kit	T-140-XK

Kit contains T-140 Calibrator, Hand Pump for selected range, fittings and connectors, rugged carrying case, 9V battery, and NIST traceable certificate. Replace X with Calibrator/Manometer Range as shown above (i.e. 300 for 300 PSI).

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