



# Meri-Cal

## Digital Manometer/Calibrator

The Meri-Cal is a portable digital manometer / calibrator for pressure and differential pressure measurement. It features high accuracy and rugged design that brings laboratory test and calibration capability to the field.

Meri-Cal's display simultaneously indicates pressure (or differential pressure) and electronic transducer/transmitter output in any of eight key selectable engineering units. Meri-Cal continues to provide the most cost effective and useful method of precise measurements.

### Standard Features on the Meri-Cal Digital Manometer/Calibrator

- **Approvals:** CSA certification for intrinsic safety use in Class 1, Groups A, B, C and D areas. CE and CENELEC approvals. (Both Optional)
- **Display:** 8 digit (4 pressure or DP and 4 voltage or current) LCD type with .3" high (7.6 mm) digits.
- **NIST traceability:** NIST certificate supplied for all models.
- **Power:** NI-CAD Rechargeable, Minimum of 40 Hrs @ 70°F (21°C); 20 Hrs @ -20°F (-29°C)
- **Temperature:**  
Storage: -40°F to 140°F (-40°C to 60°C)  
Operating: -20°F to 122°F (-6.7°C to 50°C)  
Effect: None within the calibrated range of -4° to 104°F
- **Process connection:** 1/8" OD Presto-lok
- **Enclosure:** 1.1 pounds (0.5 kg) 4 x 7.5 x 1.9 (102mm x 191mm x 48mm). Impact resistant ABS material.
- **Pressure limits:** Twice range on Gauge (LP) units. Twice range on Differential (DP) units when pressurized on high side only and 150 PSI (10.5 Kg/cm<sup>2</sup>) static when applied to both sides of the sensor simultaneously.
- **Media compatibility:** Non-isolated sensor for clean, dry, non-corrosive gases.
- **Auto Zero:** A push of a button automatically establishes zero. There is no need to compute compensation factors for local gravity, temperature, or head difference due to the location of the tester vs. the unit under test.
- **Engineering units:** in H<sub>2</sub>O at 20°C, cm H<sub>2</sub>O, PSI, in Hg at 0°C, mm Hg, Kg/cm<sup>2</sup>, kPa, mBar and user scaled.
- **Resolution:** Auto-ranging for optimal accuracy and resolution of the display for both pressure and electrical inputs.
- **Electrical Measurement:**  
Voltage: 0 to 30 Vdc  
Current: 0 to 30 mAdc
- **Accuracy:** Pressure: ± 0.1% of reading, ± 1 count, Voltage/Current: ± 0.1% of reading, ± 2 counts. Optional ± 0.05% of reading, ± 1 count on pressure sensors. Accuracy includes the combined effects of linearity, hysteresis, repeatability and temperature over the calibrated range.

MODEL*	INCHES		PSIG	MM		KG/CM <sup>2</sup>	kPa	mBar
	H <sub>2</sub> O	20		HG	HG			
LP200I	200.0	508.0	7.21	14.68	373.0	0.507	49.70	497.0
DP200I	200.0	508.0	7.21	14.68	373.0	0.507	49.70	497.0
LP2000I	2000.	5080.	72.10	146.8	3730.	5.070	497.0	4970.
DP2000I	2000.	5080.	72.10	146.8	3730.	5.070	497.0	4970.

LP models measure gauge pressure only. DP models can be used to measure differential pressure, gauge pressure and vacuum.  
\* For CSA approved models change the "I" suffix to "C" For CENELEC approved models change the "I" suffix to "E"