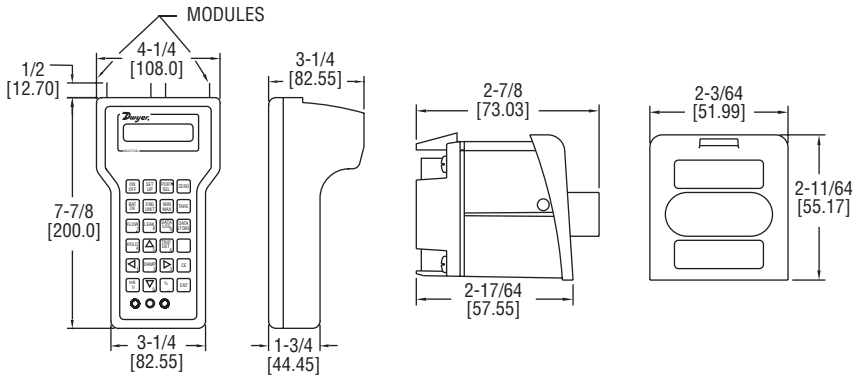
MULTI-CAL PRESSURE CALIBRATOR

Interchangeable Ranges, ±0.05% Accuracy, Datalogging Capability, NIST Traceable



The **SERIES MC** Multi-Cal Pressure Calibrator performs a wide variety of pressure based measurements, test, and calibration operations. The modular design allows users to select the pressure measurement range and will simultaneously display two separate measurements on the display. Additional features include minimum/maximum readings, high/low alarms, percentage of full scale pressure readings, mA/voltage measurement, leak rate and pressure decay measurement, switch testing capabilities, and velocity/volume flow rates.

Multi-Cal Pressure Modules are interchangeable and available in a wide selection of pressure ranges and accuracies. The handheld calibrator accepts up to two pressure modules.

FEATURES/BENEFITS

- Able to store up to 384 measurements and transfer to a PC via RS-232
- NIST traceability certification included
- User selectable engineering units
- Secondary standard for calibrating pressure equipment

APPLICATIONS

- Calibration
- Laboratory
- HVAC testing and setup
- Differential pressure measurement in laminar flow hoods

MODEL CHART	
Model	**Description**
MC2K	Handheld calibrator

MODEL CHART - MODULES	
Model	**Range**
MC1000	0.25″ H_2O differential pressure, ±0.07
MC1001	0.50″ H_2O differential pressure, ±0.07
MC1004	5.00″ H_2O differential pressure, ±0.06
MC1006	25″ H_2O differential pressure, ±0.06
MC2010	5.0 psig gauge pressure, ±0.05
MC2012	15.0 psig gauge pressure, ±0.05
MC2016	100.0 psig gage pressure, ±0.05
Multi-cal pressure modules are interchangeable and available in a wide selection of pressure ranges and accuracies. Handheld calibrator accepts up to two pressure modules. Modules include NIST calibration certification. Consult factory for other pressure ranges and accuracies. FM approved models are also available.	

SPECIFICATIONS

Service: Clean, dry, nonconductive, noncorrosive gases.
Accuracy: Differential pressure modules: ±0.06% FS; Gauge pressure modules: ±0.05% FS; Voltage input: ±0.025% FS @ 0/10 VDC, ±0.10% FS @ 0/30 VDC; Current input: ±0.03% FS @ 0/20 mA, ±0.05% FS @ 0/50 mA.
Sensitivity: ±0.002% of span with dampening 1 part in 50,000 (max).
Repeatability: Ranges ≤ 0/2 psi: ±0.05% of span; Ranges ≥ 0/5 psi: ±0.02% of span.
Output: RS-232 serial interface, 9-pin.
Alarm Output: SPST form C 110 VDC, 120 VDC (max), 1 A (max), 30 W, 62.5 VA (resistive).
Display: Alphanumeric LCD, 0.37″ (9.5 mm) height per line, 2 lines, 16 characters/line.
Display Update: 100 ms.
Ambient Operating Temperature: 32 to 120°F (0 to 49°C).
Storage Temperature: -4 to 158°F (-20 to 70°C).
Process Connection: 1/8″ female NPT.
Electrical Connections: Miniature recessed banana jacks.
Power Requirements: Internal: (2) 9 V alkaline batteries, included, user replaceable and VL1220 or BR1225 lithium metal battery, installed functional, user replaceable; External: AC adapter 9 VDC, 500 mA.
Battery Life: 30 hours (approximate).
Engineering Units: inH_2O, psi, inHg, kPa, mbar, cmH_2O, mmHg, and user-defined.
Overpressure: Differential pressure modules: 50 psi positive direction, 15 psi negative direction; Gage pressure modules: 2x range (0/5 psi to 0/1000 psi).
Temperature Compensation: 20 to 120°F (-7 to 49°C).
Temperature Error: Maximum of ±0.004% of span per °F over compensated range for zero and span.
Temperature Effect Electrical Measurement: ±0.001% of span per °F over compensated range.
Dampening: (Measurement averaging) programmable from 0 to 16 consecutive readings.
Baud Rate: 300, 1200, 2400, or 9600, selectable.
Housing Material: ABS plastic.
Weight: Calibrator: 2.2 lb (1.3 kg); Pressure module: 0.5 lb (0.3 kg).