



ohmic instruments co.

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BIOMEDICAL & ENVIRONMENTAL SENSORS, INSTRUMENTS & CONTROLS SINCE 1969

**PRECISION PRESSURE METER - PPM SERIES
PORTABLE PRESSURE & VACUUM METERS**

- MEASURES PRESSURE & VACUUM
- WIDE PRESSURE RANGE: - 13.5 to +100 PSIG
- FIVE PRESSURE RANGES AVAILABLE
- HIGH ACCURACY: ± 1.0 % OF FULL SCALE
- UTILIZES SILICON PIEZO-RESISTIVE TRANSDUCER
- OUTPUT JACK FOR DATA COLLECTION
- MAY BE USED WITH MOST NON CORROSIVE GASSES
- TEMPERATURE COMPENSATED
- FOUR SELECTABLE UNITS: mm-Hg, cm-H₂O, in-H₂O, PSIG
- 3-1/2 DIGIT LCD DISPLAY
- RECHARGEABLE BATTERY & AC ADAPTOR
- MALE LUER-LOCK PRESSURE FITTING
- ADJUSTABLE PRESSURE OFFSET



ACCURATE & REPEATABLE PRESSURE MEASUREMENT WITH SILICON SENSOR

OHMIC Instruments' PPM Portable Pressure Meters are used to verify and calibrate the accuracy of medical and industrial equipment such as dialysis machines, infusion pumps, suction devices and pressure gauges. The PPM series can be used to measure both liquid and gas pressure in four selectable units: millimeters of Mercury (mm-Hg), centimeters of water (cm-H₂O), inches of water (in-H₂O) and pounds per square inch (PSIG). The adjustable offset compensates for changes in altitude, barometric pressure, and battery level.

Pressure is shown on a large 3-1/2 digit LCD display. The unit is powered by a 9 VDC NiCad rechargeable battery and is equipped with an AC adapter/recharger making it an indispensable instrument for field use. Pressure connection standard 3/16 " Luer-lock fitting.

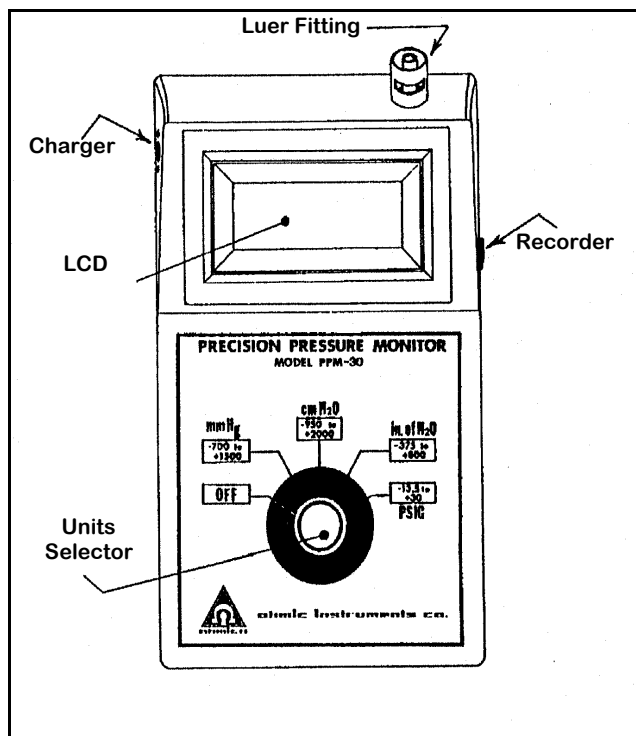
The PPM series pressure/vacuum meters utilize a monolithic silicon piezo-resistive transducer which is temperature compensated to provide accurate readings from 32 to 150°F. The signal conditioning circuitry provides regulated excitation voltage to the transducer which provides an output proportional to the applied pressure or vacuum.

The signal is fed into a differential amplifier where it is combined with a zero offset signal and linear amplifier. The gain of the linear amplifier is changed by the selector switch to correspond with the units of choice. The output of the linear amplifier is directed to the analog recorder output and digital display driver. Each PPM series unit is calibrated to NIST traceable standards.

WARRANTY: All products manufactured by OHMIC Co. are warranted to be free of defects in material and workmanship for one year after delivery. Any equipment found to be defective within this period will be repaired or replaced free of charge.

SPECIFICATIONS: PPM Series

Accuracy	± 1.0 % Full Scale (PSIG)
Display	3-1/2 Digit LCD
Low Battery Indicator	LCD "Low Batt"
Resolution	PPM-1: ± 0.1 Unit PPM-5/15/30/100: ±1.0 Unit
Operating Temperature	+ 32 to 158°F
Temperature Compensation	+ 32 to 158°F
Pressure Connection	3/16" Male Luer
Media Compatability	Most Non Corrosive Liquids & Gases. Must be Compatible with Silicone Gel, RTV, Plastic Aluminum and Glass
Maximum Allowable Pressure	PPM-1/5: 10 PSIG PPM-15: 30 PSIG PPM-30: 60 PSIG PPM-100: 100 PSIG
Recorder Output	PSIG: 1mV/Unit All other ranges: 0.1mV/Unit 1/8" Mono Phono Jack
Power	9 VDC NiCad Rechargeable Battery w/ 120 Vac adaptor / charger
Case Material	ABS Polymer
Dimensions	3.5" x 5.6" x 2" (WxLxH)
Weight	12 Oz Net



ORDERING INFORMATION

Model No	mm-Hg	cm-H ₂ O	in-H ₂ O	PSIG
PPM-100	-700 to +2,000	-950 to +2,000	-370 to +2000	- 13.5 to + 100
PPM-30	-700 to +1,030	-950 to +2,000	-370 to +550	- 13.5 to + 20
PPM-15	-700 to +775	-950 to +1,050	-370 to +400	- 13.5 to + 15
PPM-5	-250 to +250	-350 to +350	-135 to +135	- 5 to + 5
PPM-1	-50 to +50	-70 to +70	-28 to +28	- 1 to + 1

ENGINEERING SUPPORT: OHMIC Instruments Co. designs and manufactures a full line of bio-medical instruments and RH/Dew point sensors and controllers. Many of our products are custom designed to meet specific requirements. Our engineers will be pleased to discuss your application.



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