

Features - DPM-2200 Series

- ◆ Single or Dual Sensors
- ◆ Large Graphics Display with Cursor Selection of Options & Parameters Setup
- ◆ 0.05% F.S. Pressure Accuracy
- ◆ Standard Pressure Scales Include 13 Different Engineering Unit Ranges
(PSI, mmHg@0C, mmHg@20C, inHg@0C, inHg@20C, cmH2O@20C, inH2O@4C, inH2O@20C, inH2O@60F, kg/cm2, kPa, mBar, Bar)
- ◆ Digital Calibration & Zero Adjust
- ◆ Selectable Display Options & Digit Sizes
- ◆ Battery Life Display (0 to 100%)
- ◆ Programmable Digital Filter
- ◆ Contrast is Software Adjustable
- ◆ 16 Bit Measurement
- ◆ Min/Max Pressure Value Storage
- ◆ RS232 Serial Communications
- ◆ Flash Programmable for Upgrades
- ◆ DC Outputs (Optional)

Second Pressure Sensor Adds

- ◆ Independent Pressure Channel
- ◆ Separate & Combined Display Option

Temp Option

- ◆ YSI 700 or 100 Ω RTD Temperature Probe Interface
- ◆ -20.0° to 100.0° C / -4.0° to 212.0° F Range
- ◆ $\pm 0.5\%$ FS Accuracy
- ◆ Min/Max Value Capture

BC Group International, Inc.
3081 Elm Point Industrial Dr.
St. Charles, MO 63301 USA
Phone: 314-638-3800 Toll Free: 1-888-223-6763
Fax: 314-638-3200
Email: sales@bcgroupintl.com
Website: www.bcgroupintl.com

PRESSURE METERS

BC Biomedical DPM-2200 Series

DPM-2200




The DPM-2200 Series is a Microprocessor based High Precision Digital Pressure Meter Family. They measure both gas and liquid pressures and provide multiple engineering unit displays for the results. The unit may have one or two pressure sensors and an optional temperature sensor input to measure pressure and temperature all in one meter.

There are five standard pressure ranges. Models are available with any combination of ranges. The DPM-2250 Subset provides a differential pressure option using a single sensor in any of the five ranges. Optional features allow the addition of (1) Min/Max Value Capture (2) RS232 and (3) DC Outputs.



BC BIOMEDICAL DPM-2200 SERIES

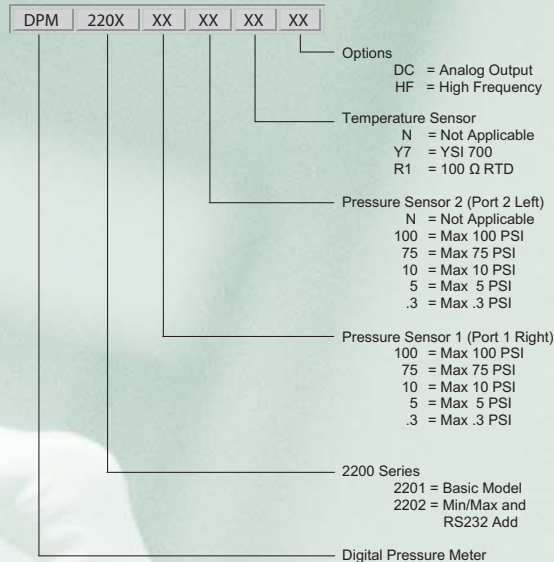
SPECIFICATIONS

General	
Accuracy	
Pressure	± .05% FS
Bandwidth	± .5% FS
Display	LCD Graphical 128 x 64 Pixels
Setup Memory	EEPROM, All Parameters
Memory Retention	10 Years w/o Power
Operating Range	15° to 30° C
Storage Range	-40° to 60° C
Construction	Enclosure – ABS Plastic Face – Lexan, Back Printed
Size	7.09" x 3.94" x 1.56"
Weight	≤1 lb.
Connections	Power – 2.1 mm center Negative RS232 – DIN Connector Pressure – Male Luer Temperature – ¼ inch Phone
CAUTION MEDIA COMPATIBILITY	The DPM-2250 Series Meters are intended to be used with only non-corrosive, non-ionic, or otherwise pure fluids and/or gases that are compatible with sensor materials including glass, silicon, ceramic, epoxy, RTV, gold, aluminum and nickel
CAUTION LO PRESSURE PORT LIQUIDS INCOMPATIBILITY	The Lo port of the DPM-2250 series meters are not intended for liquids, only dry gases
Power	BATTERY: 9 V Alkaline LINE: 9 V, Center Negative
Power Consumption	ON: Less than 12 mA OFF: Less than 40 µA
Battery Life	CONTINUOUS: 80 hrs OFF: 12 months
Battery Eliminator (Optional)	BC20-21100 (120 V) – US BC20-21101 (220 V) – Euro 9 V, 200 mA DC 
Analog Output (Optional)	1.0 to 4.0 VDC FS, selectable +/- .1% FS DC -- Output dependent on Digital Filter HF --Output from 0 to 100 Hz 10 kHz sample rate

DPM-2250



MODEL SUMMARY



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OPTIONAL ACCESSORIES FOR DPM SERIES

BC20 - 21100	BATTERY ELIMINATOR (US Version)
BC20 - 21101	BATTERY ELIMINATOR (Euro Version)
BC20 - 41337	COMMUNICATIONS CABLE (7Pin Mini-Din to DB 9 F)
BC20 - 30106	BC BIOMEDICAL SMALL SOFT SIDED CARRYING CASE
BC20 - 01005	UNIVERSAL PRESSURE ADAPTER KIT
BC20 - 01006	YSI TEMPERATURE CABLE

Pressure Sensor Ranges			
Units	100	75	10
PSIG	-13.50 to 100.0	-13.50 to 75.00	-10.00 to 10.00
mmHg	-701.0 to 5190	-701.0 to 3893	-519.0 to 519.0
inHg	-27.60 to 204.3	-27.60 to 153.2	-20.43 to 20.43
cmH ₂ O	-951.0 to 7043	-951.0 to 5282	-704.3 to 704.3
inH ₂ O	-374.0 to 2773	-374.0 to 2080	-277.3 to 277.3
KPa	-93.10 to 689.5	-93.10 to 517.1	-68.95 to 68.95
Bar	-9310 to 6.895	-9310 to 5.171	-6895 to .6895
mBar	-931.0 to 68 95	-931.0 to 51 71	-689.5 to 6 89.5

Units	5	3
PSIG	-5.000 to 5.000	-.3000 to .3000
mmHg	-259.5 to 259.5	-15.57 to 15.57
inHg	-10.22 to 10.22	-.6129 to .6129
cmH ₂ O	-352.2 to 352.2	-21.13 to 21.13
inH ₂ O	-138.7 to 138.7	-8.319 to 8.319
KPa	-34.48 to 34.48	-2.069 to 2.069
Bar	-.3448 to .3448	-.0207 to .0207
mBar	-344.8 to 344.8	-20.69 to 20.69

Temperature Ranges		
Units	100 Ω RTD	YSI 700
Degrees C	-20.0 to 100.0	-20.0 to 100.0
Degrees F	-4.0 to 212.0	-4.0 to 212.0

