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 Eight Different Engineering Unit Ranges (PSI, mmHG, inHG, cmH$_2$O, inH$_2$O, Kpa, Bar, mBar)**

◈ **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 & RTD Temp Probe Interface**

◈ **-4.0º to +120.0ºF Temp Range**

◈ **0.5% F.S. Temp Accuracy**

◈ **Min/Max Temp Value Capture**

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.
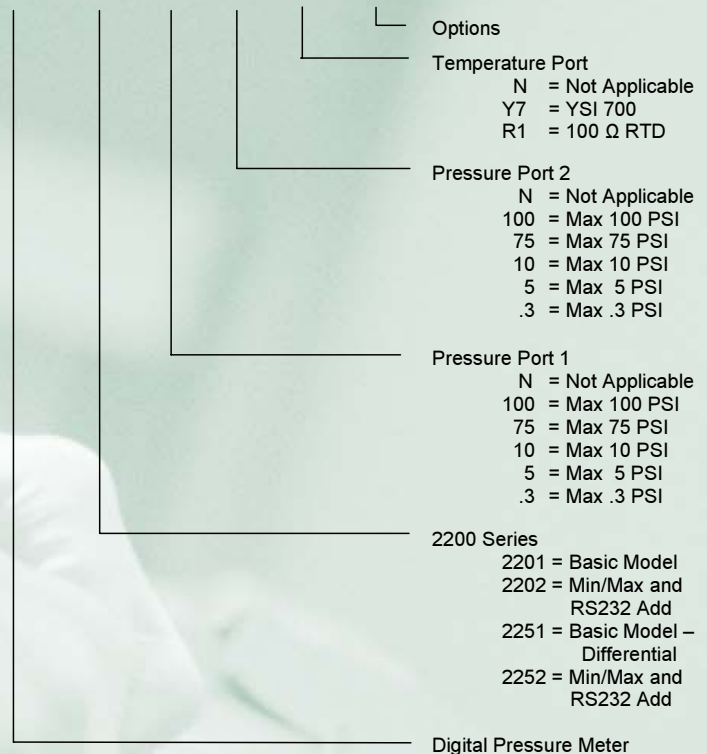
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BC BIOMEDICAL DPM-2200 SERIES

SPECIFICATIONS

General

Accuracy	
Pressure	± .05% FS
Temperature	± .5% FS
Display	LCD Graphical 128x64 Pixels
Setup Memory	EEPROM, All Parameters
Memory Retention	10 Years w/o Power
Operating Range	15º to 30º C
Storage Range	-40º to 60º 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 – 1/8 inch Phone Pressure – Male Luer Temperature – ¼ inch Phone
Pressure Media	Any pure fluid or gas that is compatible with Pyrex, Glass, Silicon, Alumina Ceramic, Epoxy, RTV, Gold, Aluminum & Nickel
Power	LINE: 9VDC, Center Negative BATTERY: 9V Alkaline
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 (110 V) – US BC20-21101 (220 V) – Euro 9V, 200 mA DC ⊙–⊙–⊙ ▭
DC Output	0 to 1 V

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_2O	-951.0 to 7043	-951.0 to 5282	-704.3 to 704.3
inH_2O	-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	-9310 to 6895	-9310 to 5171	-689.5 to 689.5

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_2O	-352.2 to 352.2	-21.13 to 21.13
inH_2O	-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 Sensor Ranges

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

DPM-2250

DPM-2250 High Precision Differential Digital Pressure Meter

MODEL SUMMARY

DPM 22XX XX XX XX XX

Options

Temperature Port
- N = Not Applicable
- Y7 = YSI 700
- R1 = 100 Ω RTD

Pressure Port 2
- N = Not Applicable
- 100 = Max 100 PSI
- 75 = Max 75 PSI
- 10 = Max 10 PSI
- 5 = Max 5 PSI
- .3 = Max .3 PSI

Pressure Port 1
- N = Not Applicable
- 100 = Max 100 PSI
- 75 = Max 75 PSI
- 10 = Max 10 PSI
- 5 = Max 5 PSI
- .3 = Max .3 PSI

2200 Series
- 2201 = Basic Model
- 2202 = Min/Max and RS232 Add
- 2251 = Basic Model – Differential
- 2252 = Min/Max and RS232 Add

Digital Pressure Meter

Optional Accessories:
- **BC20-21100** 110 V Battery Eliminator, US
- **BC20-21101** 220 V Battery Eliminator, Europe
- **BC20-21102** RS232 Cable
- **BC20-30106** Soft Carrying Case
- **BC20-40603** Universal Pressure Adapter Kit

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