

PRESSURE METERS

BC Biomedical DPM-2200 Series

Features - DPM-2200 Series

- ◆ Single or Dual Pressure Sensors
- ◆ Large Graphics Display with Cursor Selection of Options & Parameters Setup
- ◆ $\pm 0.05\%$ FS Pressure Accuracy
- ◆ 16 Bit Measurement
- ◆ Standard Pressure Scales Include 13 Different Engineering Unit Ranges
(PSI, mmHg@0 °C, mmHg@20 °C, inHg@0 °C, inHg@20 °C, cmH₂O@20 °C, inH₂O@4 °C, inH₂O@20 °C, inH₂O@60 °F, kg/cm², kPa, mBar, Bar)
- ◆ Digital Calibration & Zero Adjust
- ◆ Selectable Display Options & Digit Sizes
- ◆ Battery Life Display (0 to 100%)
- ◆ Programmable Digital Filter
- ◆ Display Contrast is Software Adjustable
- ◆ Flash Programmable, Field Upgradeable
- ◆ Optional DC or High Frequency (up to 100 Hz Cycle Rate) Outputs
- ◆ Pressure & Vacuum
- ◆ Liquids & Gases

DPM-2202 Adds:

- ◆ Min/Max Pressure Value Capture and Storage
- ◆ RS232 Serial Communications

Second Pressure Sensor Adds:

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

Temperature Option Adds:

- ◆ 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

Analog Output Option Adds:

- ◆ Standard or High Frequency Output
- ◆ DC Output Proportional to the Displayed Pressure or Temperature
- ◆ $\pm 0.1\%$ FS Output Accuracy



DPM-2200


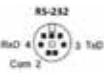
The DPM-2200 Series is a Microprocessor-based, High Precision, Digital Pressure Meter Family. They measure both gas and liquid pressures and provide multiple engineering unit displays for the results. The unit may have one or two pressure sensors and an optional temperature sensor input to measure pressure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

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 RS232 communication, Temperature measurement and a standard or high frequency analog output.

SPECIFICATIONS

PRESSURE MEASUREMENT (GAUGE)		
RANGE	100 PSI SENSOR	-13.5 to 100.0 PSI
	75 PSI SENSOR	-13.5 to 75.0 PSI
	10 PSI SENSOR	-10.0 to 10.0 PSI
	5 PSI SENSOR	-5.0 to 5.0 PSI
	0.3 PSI SENSOR	-0.3 to 0.3 PSI
RESOLUTION	100 PSI SENSOR	0.01 PSI
	75 PSI SENSOR	0.01 PSI
	10 PSI SENSOR	0.001 PSI
	5 PSI SENSOR	0.001 PSI
	0.3 PSI SENSOR	0.0001 PSI
ACCURACY	± 0.05% FS	
DIGITAL FILTER	0 to 10 seconds, Selectable	
COMPATIBLE MEDIA	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.	
CONNECTIONS	Male Luer Coupler	

PHYSICAL & ENVIRONMENTAL		
DISPLAY	128 X 64 Pixels Non-Backlit Graphical LCD	
CONSTRUCTION	ENCLOSURE	ABS Plastic
	OVERLAY	Back-printed Lexan
SIZE	7.69 x 3.97 x 1.80 Inches (195.3 x 100.8 x 45.7 mm)	
WEIGHT	< 1 lbs (0.45 kg)	
OPERATING RANGE	15 to 30 °C (59 to 86 °F)	
STORAGE RANGE	-40 to 60 °C (-40 to 140 °F)	

ELECTRICAL & MISC.			
BATTERY	9V Alkaline Battery (ANSI/NEDA 1604A or equivalent)		
BATTERY ELIMINATOR	9 VDC, 200 mA 		
	BC20-21110 BATTERY ELIMINATOR (UNIVERSAL)		
POWER CONSUMPTION	ON	< 35 mA	
	OFF	< 40 µA	
BATTERY LIFE	CONTINUOUS	80 hours	
	OFF	1 year	
RS-232 COMMUNICATIONS	BAUD	115200	
	DATA BITS	8	
	START BITS	1	
	STOP BITS	1	
	PARITY	None	
	HANDSHAKING	None	
	CONNECTIONS	Seven (7) pin Mini-DIN Receptacle Pinout:  NOTE: As Viewed from Unit Exterior	

DPM-2250



MODEL SUMMARY

DPM	220X	XX	XX	XX	XX
Options					
Blank = Not Applicable					
DC = DC (Direct Current) Analog Output					
HF = High Frequency DC Analog Output					
Temperature Sensor Option					
N = Not Applicable					
Y7 = YSI 700					
R1 = 100 Ω RTD					
Pressure Range (Sensor 2)					
N = Not Applicable					
100 = Max 100 PSI					
75 = Max 75 PSI					
10 = Max 10 PSI					
5 = Max 5 PSI					
.3 = Max 0.3 PSI					
Pressure Range (Sensor 1)					
100 = Max 100 PSI					
75 = Max 75 PSI					
10 = Max 10 PSI					
5 = Max 5 PSI					
.3 = Max 0.3 PSI					
Model					
2201 = Basic Model					
2202 = Adds Min/Max and RS-232					

DPM	225X	XX	N	XX	XX
Options					
Blank = Not Applicable					
DC = DC (Direct Current) Analog Output					
HF = High Frequency DC Analog Output					
Temperature Sensor					
N = Not Applicable					
Y7 = YSI 700					
R1 = 100 Ω RTD					
Pressure Sensor 2					
N = Not Applicable					
Pressure Sensor 1					
N = Not Applicable					
100 = Max 100 PSI (CPC Connector)					
75 = Max 75 PSI (CPC Connector)					
10 = Max 10 PSI (Luer Connector)					
5 = Max 5 PSI (Luer Connector)					
.3 = Max .3 PSI (Luer Connector)					
2250 Series					
2251 = Basic Model (Includes Min/Max)					
2252 = RS232 Add					
Digital Pressure Meter					

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EYE SURGERY EQUIPMENT USERS PLEASE NOTE:

Recommended part number for DPM Pressure Meter when servicing Eye Surgery Equipment.
DPM-220210010NHF