

Features - DPM 2300 Series

- ◆ Large Graphics Display With Cursor Selection Of Options And Setup
- ◆ High Resolution 24 Bit Measurement
- ◆ $\pm 0.05\%$ FS Pressure Accuracy
- ◆ 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)
- ◆ MAX And MIN Pressure Value Capture And Storage
- ◆ Digital Calibration
- ◆ Selectable Display Options & Digit Sizes
- ◆ Battery Life Display (0 To 100%)
- ◆ Programmable Digital Averaging Filter
- ◆ Display Contrast Is Software Adjustable
- ◆ Digital Zero Adjustment

DPM-2302 Adds:

- ◆ RS232 Serial Communications

Second Pressure Sensor Adds:

- ◆ Independent Pressure Channel
- ◆ Separate And 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:

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

PRESSURE METERS

BC Biomedical DPM-2300 Series



DPM-2300

The DPM-2300 Series is a microprocessor-based, High Precision, High Resolution Digital Pressure Meter Family. These meters 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.

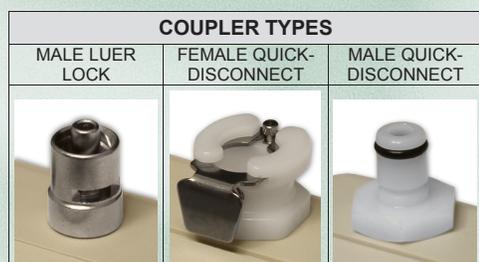
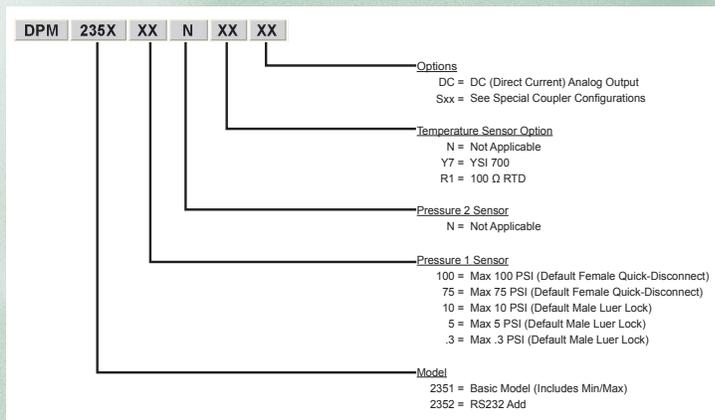
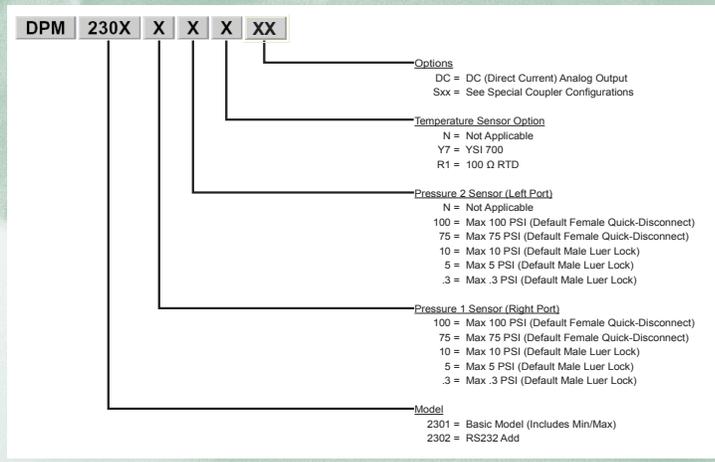
There are five standard pressure ranges. Models are available with any combination of ranges. The DPM-2350 Subset provides a differential pressure option using a single sensor in any of the five ranges. Optional features allow the addition of RS232 communication, Temperature measurement and DC Analog Outputs.



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	0.001 PSI
	75 PSI SENSOR	0.001 PSI
	10 PSI SENSOR	0.0001 PSI
	5 PSI SENSOR	0.0001 PSI
	0.3 PSI SENSOR	0.00001 PSI
MAXIMUM OVERPRESSURE	100 PSI SENSOR	200 PSI
	75 PSI SENSOR	200 PSI
	10 PSI SENSOR	45 PSI
	5 PSI SENSOR	15 PSI
	0.3 PSI SENSOR	5 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	See Model Number Breakdown	
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: RS-232 Rx/D 4, Tx 3, Com 2 NOTE: As Viewed from Unit Exterior

MODEL SUMMARY



SPECIAL COUPLER CONFIGURATIONS

Option	Pressure 1 Coupler (Right Port)	Pressure 2 Coupler (Left Port)
S01	Female Quick-Disconnect	Female Quick-Disconnect
S02	Female Quick-Disconnect	Male Quick-Disconnect
S03	Female Quick-Disconnect	Male Luer Lock
S04	Female Quick-Disconnect	Not Applicable
S05	Male Quick-Disconnect	Female Quick-Disconnect
S06	Male Quick-Disconnect	Male Quick-Disconnect
S07	Male Quick-Disconnect	Male Luer Lock
S08	Male Quick-Disconnect	Not Applicable
S09	Male Luer Lock	Female Quick-Disconnect
S10	Male Luer Lock	Male Quick-Disconnect
S11	Male Luer Lock	Male Luer Lock
S12	Male Luer Lock	Not Applicable

SPECIAL MODEL:
Recommended model for use with TSI
Certifier-FA Respiratory Vent Test System:
DPM-235175NNFC
or **DPM-23017510NFC**