Digital Pressure Meter

BC Biomedical DPM 2300 Series

Features - DPM 2300 Series

Large Graphics Display With Cursor Selection Of Options And Setup

High Resolution 24 Bit Measurement

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, inH2 O@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
0.5% FS Accuracy

Analog Output Option Adds:

DC Output Proportional to the Displayed Pressure or Temperature
0.1% FS Output Accuracy

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.
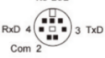
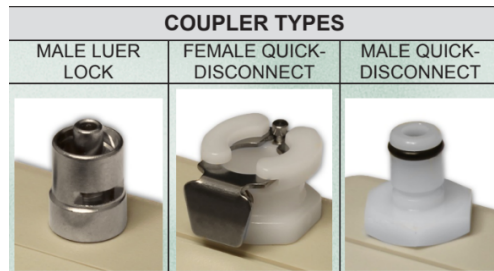Optional features allow the addition of RS232 communication, Temperature measurement and DC Analog Outputs.
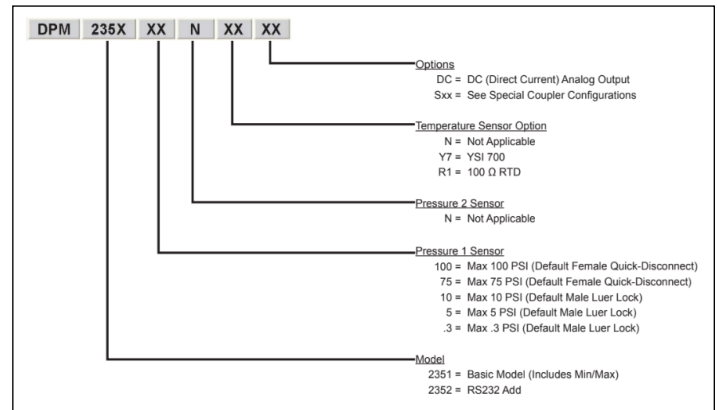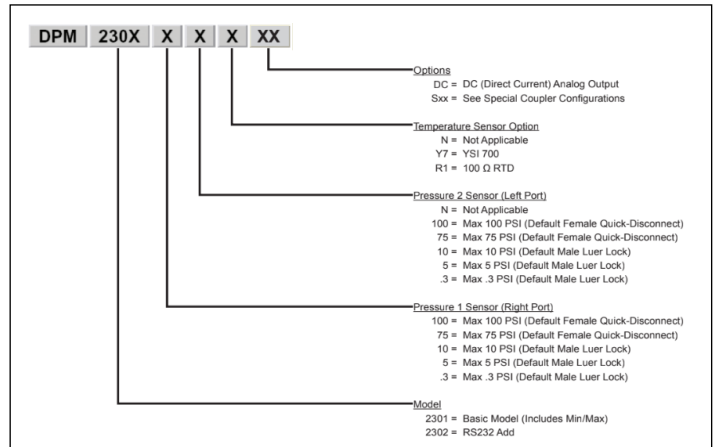

DPM 2300

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Unit 24, 14-16 Stanton Road
Seven Hills NSW 2147
(02) 9674 5040

U -TECH BRISBANE
U -TECH MELBOURNE

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 RxD 4 3 TxD Com 2 NOTE: As Viewed from Unit Exterior

DPM | 230X | X | X | X | XX

Options
DC = DC (Direct Current) Analog Output
Sxx = See Special Coupler Configurations

Temperature Sensor Option
N = Not Applicable
Y7 = YSI 700
R1 = 100 Ω RTD

Pressure 2 Sensor (Left Port)
N = Not Applicable
100 = Max 100 PSI (Default Female Quick-Disconnect)
75 = Max 75 PSI (Default Female Quick-Disconnect)
10 = Max 10 PSI (Default Male Luer Lock)
5 = Max 5 PSI (Default Male Luer Lock)
.3 = Max .3 PSI (Default Male Luer Lock)

Pressure 1 Sensor (Right Port)
100 = Max 100 PSI (Default Female Quick-Disconnect)
75 = Max 75 PSI (Default Female Quick-Disconnect)
10 = Max 10 PSI (Default Male Luer Lock)
5 = Max 5 PSI (Default Male Luer Lock)
.3 = Max .3 PSI (Default Male Luer Lock)

Model
2301 = Basic Model (Includes Min/Max)
2302 = RS232 Add

DPM | 235X | XX | N | XX | XX

Options
DC = DC (Direct Current) Analog Output
Sxx = See Special Coupler Configurations

Temperature Sensor Option
N = Not Applicable
Y7 = YSI 700
R1 = 100 Ω RTD

Pressure 2 Sensor
N = Not Applicable

Pressure 1 Sensor
100 = Max 100 PSI (Default Female Quick-Disconnect)
75 = Max 75 PSI (Default Female Quick-Disconnect)
10 = Max 10 PSI (Default Male Luer Lock)
5 = Max 5 PSI (Default Male Luer Lock)
.3 = Max .3 PSI (Default Male Luer Lock)

Model
2351 = Basic Model (Includes Min/Max)
2352 = RS232 Add

COUPLER TYPES		
MALE LUER LOCK	FEMALE QUICK-DISCONNECT	MALE QUICK-DISCONNECT

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

About BC Group International

BC Group is a leader in manufacturing, servicing and selling biomedical testing equipment. With dealers across the world, BC Group has achieved international success and continues to grow. Our equipment is designed to thoroughly test medical equipment and maximize your investments. We have a promise to provide quality at all levels of operation and help ensure equipment is safe for patients and medical staff.

BC Group is committed to exceeding customer expectations and enhancing customer satisfaction through the continual improvement of our products, services and Quality Management System