

## Druck Precision Barometer

### Our most accurate barometer

- Range: 22 to 34 "Hg Absolute Pressure
- Improved  $\pm 0.02\%$  FS Accuracy
- Six-Digit Resolution
- Selectable Pressure Units
- RS-232 Output
- Portable, Handheld Design
- Optional  $\pm 0.013\%$  FS Accuracy

This instrument is compact and tough enough for field applications, yet accurate enough for use as a barometric reference standard. Its range is 22 to 34 "HgA, and values can be read in any of

20 selectable engineering units, including PSI, "H<sub>2</sub>O, mmHg, BAR, and kPa. It also displays altitude equivalents in feet and meters. Max/min, reading store, tare, and programmable filter functions are built in. The 23039P's proprietary sensing element provides excellent accuracy as well as outstanding long-term calibration stability. An RS-232-C port enables data output to printer or computer. Designed for handheld or bench applications, the unit features an integral folding stand.

**Each Unit Includes:** Three AA alkaline batteries, carrying case, calibration certificate, and operating manual.



DPI740-22/34

### Specifications

Range/Accuracy:	22 to 34 "HgA/ $\pm 0.02\%$ FS
Enhanced Accuracy Option:	$\pm 0.013\%$ FS
Resolution:	0.0003 "Hg
Display:	Alphanumeric LCD, 6-digits, 0.54" high
Overpressure Limits:	No calibration change between 0 and 118 "Hg
Stability:	Better than 100 ppm per year
Media:	Non-corrosive gases
Pressure Connection:	1/4" OD, 5/32" ID tubing
Serial Output:	RS-232-C, via 6-way LEMO socket
Power Supply:	Three AA alkaline batteries
Size/Weight:	7.5 x 3.5 x 1.4" HWD/1.1 lbs

### Ordering Information

Order #	Mfg #	Description	Price
MP23039P	DPI740-22/34	Portable Precision Barometer, 0.02%	
MP23039P-A	DPI740-22/34-A	Portable Precision Barometer, 0.013%	
MPIA2067-1-V0		RS-232 Adaptor Lead	
MP860-114	860-114	Transit Case	

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## Meriam Precision Absolute Manometer

### Excellent accuracy in a handheld unit

- Accuracy  $\pm 0.02\%$  or Better
- Measures Absolute Pressure to 900 or 2000 mmHg in 7 Selectable Engineering Units
- Accuracy Includes Effects of Linearity, Repeatability, Hysteresis, and Temperature
- Isolated All-316SS Sensor Compatible with Liquids and Corrosives
- Adjustable Damping Eliminates Effects of Pulsating Pressures, Tare Function Enables Vacuum and Gauge Measurements, Min/Max Captures Signal Extremes

- Altitude Function Lets You Enter Site Altitude in Feet or Meters, Then Display Either Local Barometric Pressure or Pressure Corrected to Sea Level. Also Used to Measure Changes in Altitude (Perfect for Surveying Applications)

The exceptionally accurate and versatile 24463P/65P offers functions and features usually found only on bulky benchtop instruments. Available in two ranges, each with CSA intrinsic safety option.

**Each Unit Includes:** 9V alkaline battery, soft vinyl carrying case, and operating instructions.



355-AI0900

### Specifications

Ranges:	0 to 900 mmHgA, 24463P; 0 to 2000 mm HgA, 24465P
Accuracy	
24463P	$\pm 0.02\%$ FS
24465P	$\pm 0.015\%$ FS, 0 to 1000 mmHg; $\pm 0.025\%$ F.S., 1000 to 2000 mmHg
Display:	5-digit alphanumeric LCD, 2 lines x 16 characters, w/adjustable contrast
Engineering Units:	Selectable from mm Hg, PSI, "Hg, mBAR, BAR, kPa, Torr
Process Connection:	1/8" female NPT, 316SS
Operating Temp.:	23 to 122 F (-5 to +50°C)
Power Supply:	9V alkaline battery (lithium recommended for use below 32°F/0°C)
Size/Weight:	6.5 x 3.6 x 2.25" HWD/14 oz

### Ordering Information

Order #	Mfg #	Description	Price
MP24463P	355-AI0900	Absolute Manometer, 0 to 900 mmHgA	
MP24463P-CSA	355-AI0900	Absolute Manometer, 0 to 900 mmHgA, CSA Approved	
MP24465P	355-AI2000	Absolute Manometer, 0 to 2000 mmHgA	
MP24465P-CSA	355-AI2000	Absolute Manometer, 0 to 2000 mmHgA, CSA Approved	
MP24466P-CS	A900016-50001	ABS Carrying Case	
MPU9VL-J-PC		9V Lithium Battery	

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## Transmation Digital Pressure Gauge

### Built-in switch test mode

- ±0.05% FS Accuracy
- Full 5-digit resolution (99999)
- Ten Selectable Engineering Units
- Switch Test Mode
- Ranges from ±10 "H<sub>2</sub>O to 2000 PSI
- 1/8" FNPT Connections

With the CheckMate™ 600 you can test dry-contact (non-powered) pressure switches for trip points on both rising and falling pressures. Test both normally-open and normally-closed switches. The display freezes the pressure reading until the "reset" button is pressed.

**Each Unit Includes:** Four AA batteries, test leads, and carrying case.

### Ordering Information

Order #	Mfg #	Description	Price
MP23415P-10WD	23415P-10WD	CheckMate™ 600, ±10 "H <sub>2</sub> O	
MP23415P-10	23415P-10	CheckMate™ 600, 10 PSID	
MP23415P-30	23415P-30	CheckMate™ 600, 30 PSID	
MP23415P-100	23415P-100	CheckMate™ 600, 100 PSID	
MP23415P-300	23415P-300	CheckMate™ 600, 300 PSIG	
MP23415P-1K	23415P-1000	CheckMate™ 600, 1000 PSIG	
MP23415P-2K	23415P-2000	CheckMate™ 600, 2000 PSIG	
MP5950P	5950P	Low Pressure Pump/Fitting Kit 200 PSI	
MP5954P	5954P	High Pressure Pump/Fitting Kit	

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The 23415P is the first digital gauge to incorporate a switch test circuit



### Specifications

Engineering Units:	PSIG, kPa, Pa, BAR, mBAR, kgf/cm <sup>2</sup> , "Hg, mmHg, "H <sub>2</sub> O, mmH <sub>2</sub> O
Media Compatibility:	Range ±10 "H <sub>2</sub> O: Dry air only; Ranges 10–100 PSI: for liquids and gasses compatible with glass, ceramic, silicon, RTV, and nickel; Ranges 300 to 2000 PSI: Any media compatible with 316SS
Size/Weight:	6.23 x 3.27 x 1.94"/12 oz

## Meriam Manometer

- ±0.25% Rdg + 5 Digits (22°C) (Includes Effects of Linearity, Hysteresis and Repeatability)
- Gauge, Absolute, Vacuum, and Differential Pressure Ranges Available
- Ranges from 20 "H<sub>2</sub>O to 100 PSIG
- 4 1/2-Digit LCD
- 1/8" FNPT Connections
- 6.5 x 3.2 x 1.2" HWD/8 oz

**Each Unit Includes:** 9V alkaline battery and instruction manual.

### Specifications and Ordering Information

Order #	Mfg#	Range	Resolution	Price
MP4375P	D0020IW	0–20 "H <sub>2</sub> O	0.01	
MP4376P	D0200IW	0–200 "H <sub>2</sub> O	0.01	
MP4377P	D1000IW	0–1000 "H <sub>2</sub> O	0.1	
MP4378P	D0010P	0–10 PSI	0.001	
MP4379P	D0030P	0–30 PSI	0.01	
MP4380P	D0100P	0–100 PSI	0.01	
MP4381P	D0050MB	0–50 mBAR	0.01	
MP4382P	D0500MB	0–500 mBAR	0.1	
MP4383P	D2000MB	0–2000 mBAR	0.1	
MP4384P	D0007B	0–7 BAR	0.001	
MP4385P	A0030P	0–30 PSIA	0.01	
MP4386P	A1500MH	0–1500 mm HgA	0.1	
MP4387P	A0060IH	0–60 "HgA	0.01	
MP6215P	6215P	Hand Pump/Pressure		
MP4238P	4238P	Hand Pump/Vacuum		
MP6218P	6218P FITTINGS KIT	Tubing and Fittings		
MP4498P	A34957	Attache Case		
MP4499P	B900950-00001	Soft-Sided Case		

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Hand pumps, tubing, and fittings

are on pages A92-A99



D1000IW ▲

## Meriam Smart and Precision Manometers

**High accuracy, enhanced functions, and ranges to meet virtually any application**

This family of hand-held, highly accurate manometers offers ranges and functions to meet nearly any pressure-measuring need. The 21047/48/49P series "smart" units are excellent low-cost, general-purpose test gauges. Available for gauge, absolute, differential, and vacuum (with optional pump) pressure. Differential sensors are non-isolated, while gauge and absolute sensors are isolated.

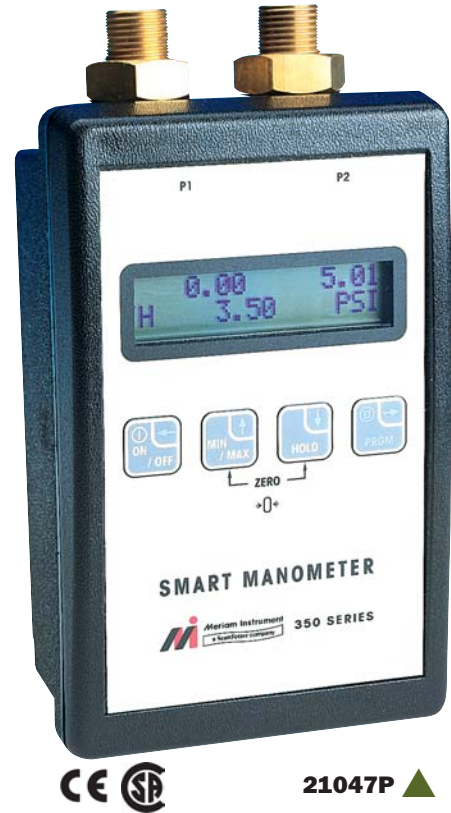
- Selectable Engineering Units; 21047/48/49P Also Feature User-Defined Scaling
- $\pm 0.05\%$  FS Accuracy Includes Effects of Linearity, Repeatability, Hysteresis, and Temperature
- Adjustable Damping Eliminates Effects of Pulsating Pressures, Min/Max Captures Signal Extremes, Hold Button (21047/48/49P only) Freezes Display at Any Selected Point
- Differential-Pressure Versions Include Flow Function that Displays Flow Rate in User-Defined Units
- Isolated Sensors are 316SS, Compatible with Liquids and Corrosives; Non-Isolated Sensors are Compatible with Clean, Dry Non-Corrosive Gases
- Standard Units are CE Compliant and CSA Intrinsically Safe

24463P and 24465P are precision absolute-pressure manometers with these additional features:

- $\pm 0.02\%$  FS or Better Accuracy
- Tare Function Enables Vacuum and Gauge Measurements
- Altitude Function Lets You Enter Site Altitude in Feet or Meters, then Display Either Local Barometric Pressure or Pressure Corrected to Sea Level. Also Used to Measure Changes in Altitude (Perfect for Surveying Applications)
- Adjustable-Contrast Display for Easier Viewing
- CSA Intrinsic Safety Approval Optionally Available

**Each 21047P/21048P/21049P Includes:** 9V alkaline battery and operating instructions.

**Each 24463P/24465P Includes:** 9V alkaline battery, soft vinyl carrying case, and operating instructions.



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Pressure/Flow Test Instruments

### Specifications

	21047P/21048P/21049P	24463P/24465P
Ranges:	See ordering information below	
Accuracy:	$\pm 0.05\%$ FS	24463P: $\pm 0.02\%$ FS; 24465P: $\pm 0.015\%$ FS, 0 to 1000 mm Hg, $\pm 0.025\%$ FS, 1000 to 2000 mm Hg
Display:	5-digit alphanumeric LCD, 2 lines x 16 characters	5-digit alphanumeric LCD, 2 lines x 16 characters, with adjustable contrast
Engineering Units:	"H <sub>2</sub> O (3 choices of reference temperature), PSI, mmHg, "Hg, mBAR, BAR, kPa, kg/cm <sup>2</sup> , cm H <sub>2</sub> O, user-defined scaling	"H <sub>2</sub> O (3 choices of reference temperature), PSI, mmHg, "Hg, mBAR, BAR, kPa, kg/cm <sup>2</sup> , cmH <sub>2</sub> O, mmHg, PSI, "Hg, mBAR, BAR, kPa, Torr
Process Connection:	1/8" female NPT, 316SS	
Operating Temp.:	23 to 122°F (-5 to +50°C)	
Power Supply:	9V alkaline battery (lithium recommended for use below 32°F/0°C)	
Size/Weight:	6.5 x 3.6 x 2.25" HWD/14 oz	

### Ordering Information

Order #	Description	Price
MP21047P-20	Smart Manometer, 20 "H <sub>2</sub> O Differential, Non-Isolated	
MP21047P-200	Smart Manometer, 200 "H <sub>2</sub> O Differential, Non-Isolated	
MP21047P-2K	Smart Manometer, 2000 "H <sub>2</sub> O Differential, Non-Isolated	
MP21048P-20	Smart Manometer, 20 PSIG, Isolated	
MP21048P-200	Smart Manometer, 200 PSIG, Isolated	
MP21048P-2K	Smart Manometer, 2000 PSIG, Isolated	
MP21049P-2K	Smart Manometer, 2000 mm Hg Absolute, Isolated	
MP24463P	Precision Absolute Manometer, 0 to 900 mm HgA	
MP24463P-CSA	Precision Absolute Manometer, 0 to 900 mm HgA, CSA Approved	
MP24465P	Precision Absolute Manometer, 0 to 2000 mm HgA	
MP24465P-CSA	Precision Absolute Manometer, 0 to 2000 mm HgA, CSA Approved	
MP24466P-CS	ABS Carrying Case	
MP5845P-1	Padded Carrying Case for Manometer with Tubing and Fittings	
MP5854P-3	High-Pressure Tubing and Fittings, 3000 PSI	
MP6218P	Tubing and Fittings, 300 PSI	
MPU9VL-J-PC	9V Lithium Battery	
MP6215P	Low Pressure, 200 PSI pump	
MP4238P	Vacuum Pump	

NOTE: See pages A92-A99 for other hand pumps and kits.

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