

## Druck Handheld Pressure Indicator

- Ranges from 1 to 10,000 PSI
- $\pm 0.1\%$  Accuracy
- 16 Engineering Units
- Rugged and Lightweight

Designed for one-handed operation, this new pressure indicator combines a rugged design with 0.1% measurement accuracy. It has many of the features you need for routine testing and maintenance:

- Impact resistant and sealed to IP54
- No warm up time
- 60 second leak test built-in
- Push button zero
- Tare/offset up to 100% of range
- Filter mode provides stable readings of unstable pressures

We offer models with internal sensors up to 300 PSIG, and with external sensors up to 10,000 PSIG. Ranges not shown are available by special order. Combine this with one of our hand pumps or kits to provide a complete low cost solution to complement your higher end calibration tools.



### Specifications

Accuracy:	$\pm 0.1\%$ FS including linearity, hysteresis, and repeatability
Temperature Effect:	$\pm 0.01\%$ Rdg/ $^{\circ}$ F
Engineering Units:	PSI, BAR, mBAR, mH <sub>2</sub> O, inH <sub>2</sub> O (4 $^{\circ}$ and 20 $^{\circ}$ C), ftH <sub>2</sub> O (4 $^{\circ}$ and 20 $^{\circ}$ C), inHg, mmHg, mHg, Pa, hPa, kPa, MPa, kgf/cm <sup>2</sup> , and one user definable scale
Pressure Connections:	External sensor 1/4" FNPT; internal sensor 1/8" FNPT
Media Compatibility:	Differential low side – clean dry gasses Differential high side – non corrosive liquids or gasses Gauge and absolute sensors – materials compatible with stainless steel
Power Supply:	3 AA alkaline batteries, approx. 300 hrs use
Size/Weight:	7.6 x 3.6 x 1.5"/1 lb

### Ordering Information

Order #	Mfg #	Description	Price
MP23943P-1D	DPI 705-1PSID	Digital Pressure Gauge, 1 PSID	
MP23943P-3D	DPI 705-3PSID	Digital Pressure Gauge, 3 PSID	
MP23943P-15D	DPI 705-15PSID	Digital Pressure Gauge, 15 PSID	
MP23943P-10G	DPI 705-10PSIG	Digital Pressure Gauge, 10 PSIG	
MP23943P-30G	DPI 705-30PSIG	Digital Pressure Gauge, 30 PSIG	
MP23943P-100G	DPI 705-100PSIG	Digital Pressure Gauge, 100 PSIG	
MP23943P-300G	DPI 705-300PSIG	Digital Pressure Gauge, 300 PSIG	
MP23943P-30A	DPI 705-30PSIA	Digital Pressure Gauge, 30 PSIA	
MP23950P-100G	DPI705R-100PSIG	Digital Pressure Gauge, 100 PSIG External Sensor	
MP23950P-500G	DPI705R-500PSIG	Digital Pressure Gauge, 500 PSIG External Sensor	
MP23950P-1000G	DPI705R-1000PSIG	Digital Pressure Gauge, 1000 PSIG External Sensor	
MP23950P-2000A	DPI705R-2000PSIA	Digital Pressure Gauge, 2,000 PSIA External Sensor	
MP23950P-3000A	DPI705R-3000A	Digital Pressure Gauge, 3,000 PSIA External Sensor	
MP23950P-5000A	DPI705R-5000PSIA	Digital Pressure Gauge, 5,000 PSIA External Sensor	
MP23950P-10000A	DPI705R-10000PSIA	Digital Pressure Gauge, 10,000 PSIA External Sensor	

**NOTE:** External sensor models are available in many additional ranges. CALL TRANSCAT  
**NOTE:** For CSA intrinsically safe approval: Add - IS to the order number and \$100 to the price

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**Pumps, tubing, fitting and pump kits...**  
are on pages A92-A99.

**Find Calibration Labels**  
on page A24

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Pressure/Flow Test Instruments

## Transcasion 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 Pressure/Level Gauges

**Programmable "smart" gauges offer versatility, easy configuration, high accuracy**

- Pressure Models Measure Differential, Gauge, Vacuum, or Absolute Pressure
- Level Models Display Tank Level in Volumetric or Mass Units
- NIST-Traceable Accuracy of  $\pm 0.05\%$ , Includes Combined Effects of Linearity, Repeatability, Hysteresis, and Temperature
- Selectable Engineering Units
- Standard Models Powered Via 110/220 VAC or 24 VDC, Have RS-232-C Port and Two SPDT Setpoint Relays. Other Power Options Available
- 1/4 DIN Aluminum Enclosure with Durable Epoxy Finish, NEMA 4X Enclosure Rating

D

5828P, 5829P, 5830P measure pressure directly through a 1/8" FNPT input port. Use them as test-bench gauges, for gas-flow measurement or leak testing, etc. The 5832P can be configured for linear or non-linear tanks; use it in bubbler systems or for direct head measurement on pressurized or vented tanks. Displays tank level in volumetric or mass units based on the hydrostatic head pressure of the tank fluid.

### Each Unit Includes:

Manufacturer's NIST traceable certificate and instruction manual.



### ▲ The 5828P is easy to read and operate

This gauge series is offered in two models. One for pressure, and one for tank-level measurements. A choice of outputs make them ideal for control, recording, and logging—as well as indicating—applications. Pressure instruments are available in differential, gauge, absolute, and vacuum ranges. Gauge and absolute models have isolated sensors, differential models are non-isolated. Level-measuring instruments offered in non-isolated differential and isolated gauge-pressure versions.

### Specifications

Ranges:	0-200 "H <sub>2</sub> O to 0-2000 PSI
Accuracy:	$\pm 0.05\%$ of Full Scale, including combined effects of linearity, repeatability, hysteresis, and temperature
Pressure Limits:	2X on absolute and gauge units; 2X on differential units when pressurized on high side only, 150 PSI (10.5 kg/cm <sup>2</sup> ) static when applied to both sides of the sensor simultaneously
Media Compatibility:	Clean, dry, non-corrosive gases only, non-isolated sensors; fluids compatible with 316SS, isolated sensors
Display:	4 1/2-digit LCD 0.6" high
Selectable Engineering:	
Pressure Models:	PSI, kPa, "H <sub>2</sub> O, cm H <sub>2</sub> O, kg/cm <sup>2</sup> , BAR, mBAR, "Hg, mmHg, user-defined
Tank-Level Models:	Gallons, liters, cu. meters, cu. ft, kg, lb, percent full, "H <sub>2</sub> O, user-defined
Process Connection:	1/8" female NPT, 316SS
Operating Temperature:	23 to +122°F (-5 to +50°C)
Power Supply:	
Standard:	Selectable 110/220V AC or 24V DC
Options:	Opt. B: lithium battery unit with field-replaceable battery board and user-defined auto shut-off (no outputs available with this option); Opt. L: 24 VDC
Outputs:	
Standard:	RS-232-C and two SPDT setpoint relays rated 1A resistive @ 24 VDC, 0.5A resistive @ 115 VAC
Optional:	Power Opt. L: 4-20 mA and RS-232-C only
Size/Weight:	1/4 DIN (3.8 x 3.8 x 6.5" HWD)/4 lb
Enclosure:	Aluminum epoxy-finished case; standard unit is NEMA 4X on front panel only, battery-powered and 4-20 mA units are NEMA 4X throughout

### Ordering Information

Order #	Description	Price
MP5828P-20	Differential/Gauge Vacuum Indicator, 0-20 "H <sub>2</sub> O	
MP5828P-1	Differential/Gauge Vacuum Indicator, 0-200 "H <sub>2</sub> O	
MP5828P-2	Differential/Gauge Vacuum Indicator, 0-2000 "H <sub>2</sub> O	
MP5829P-3	Gauge Only Indicator, 0-20 PSIG Isolated	
MP5829P-4	Gauge Only Indicator, 0-200 PSIG Isolated	
MP5829P-5	Gauge Only Indicator, 0-2000 PSIG Isolated	
MP5830P-7	Absolute Indicator, 0-2000 mmHgA Isolated	
MP5832P-1	Level Indicator, Differential, Non-Isolated, 0-200 "H <sub>2</sub> O	
MP5832P-2	Level Indicator, Differential, Non-Isolated, 0-2000 "H <sub>2</sub> O	
MP5833P	Soft-Sided Nylon Carrying Case	
MP-P	Portable Option with Handle and Bench Stand	
MP-B	Lithium Battery Option (see specifications)	
MP-L	24 VDC Power Option with 4-20 mA Output (see specifications)	

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**Don't forget to order the nylon carrying case.**

## Druck Pressure Indicator

- Standard and Enhanced-Accuracy Models
- Very High Resolution
- Bench or DIN-Standard Panel Mount

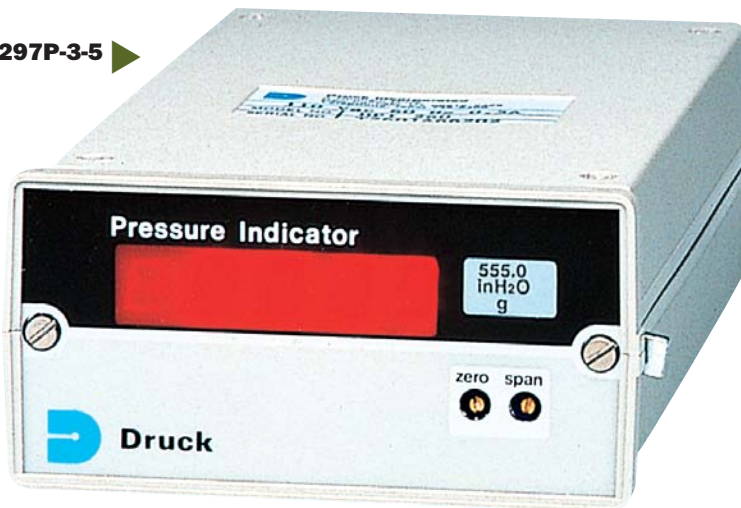
### Extremely Wide Choice of Ranges, Engineering Units and Accuracies

This series of indicators can be calibrated in PSI, kPa, and inches of water, in both gauge pressure and absolute pressure versions. Standard accuracy is  $\pm 0.08\%$  of Full Scale; enhanced accuracy is  $\pm 0.04\%$ . These indicators emulate an analog pressure gauge. The pressure transducer is mounted internally and the media to be measured is brought to a  $\frac{1}{8}$ " NPT fitting on the unit's rear panel. The bright 4½-digit LED provides unambiguous readout and up to 0.005% resolution.

### Dozens of Unlisted Models Also Available

These instruments are available in many other configurations, including non-standard and differential pressure ranges, remote transducers, calibration in other engineering units, various analog and digital outputs, and ranges up to 10,000 PSI. Please contact Transcat for more information.

4297P-3-5



Insert Engineering Unit code 1, 2, 3, or 6 into [A]

Insert Accuracy code 4 or 5 into [B]

### Specifications

Ranges:	See range table
Standard Accuracy:	Ranges: 0–1 PSI through 0–900 PSI, $\pm 0.08\%$ of FS
Enhanced Accuracy:	Ranges: 0–1 PSI through 0–500 PSI, $\pm 0.04\%$ of FS Range: 0–900 PSI, $\pm 0.06\%$ of FS
Resolution:	$\leq 0.005\%$ of FS
Input Signal Range:	10–200 mV nominal for 19999 max display
Zero Offset:	$\pm 19999$ , internal switch selectable
Temp. Coefficient:	$< 0.0025\%$ of reading/ $^{\circ}$ F
Long Term Stability:	$< 0.02\%$ of Full Scale/year
Overpressure Protection:	x10 for 1 PSI and 2.5 PSI models; x6 for 2.5 PSI and 5 PSI models; x4 for 5 PSI to 900 PSI models; x2 for 1000 PSI
Positive Pressure Media:	For gauge pressure models; fluids or gases compatible with quartz and titanium; for absolute pressure models, fluids or gases compatible with 316 stainless steel and Hastelloy Reference
Pressure Media:	Dry, non-corrosive, non-conducting gases
Pressure Input:	$\frac{1}{8}$ " FNPT
Power Supply:	110 or 240 VAC, 50–400 Hz, 3V A max
Size/Weight:	1.89 x 3.78 x 6.89" HWD/1.1 lbs

### Specifications and Ordering Information

Order #	Insert In [A]			Insert in [B]	
	Range PSI Code 1	Range kPa Code 2	Range "H <sub>2</sub> O Code 3	Standard $\pm 0.08\%$ Code 4	Enhanced $\pm 0.04\%$ Code 5
<b>Gauge Pressure</b>					
MP4292P - [A] - [B]	0–1	0–10	0–30		
MP4293P - [A] - [B]	0–2.5	0–20	0–70		
MP4294P - [A] - [B]	0–5	0–35	0–140		
MP4295P - [A] - [B]	0–10	0–70	0–275		
MP4296P - [A] - [B]	0–15	0–100	0–420		
MP4297P - [A] - [B]	0–20	0–140	0–555		
MP4298P - [A] - [B]	0–30	0–200	0–830		
MP4299P - [A] - [B]	0–50	0–350	—		
MP4300P - [A] - [B]	0–100	0–670	—		
MP4301P - [A] - [B]	0–150	0–1030	—		
MP4302P - [A] - [B]	0–200	0–1400	—		
MP4303P - [A] - [B]	0–300	0–2100	—		
MP4304P - [A] - [B]	0–500	0–3450	—		
MP4305P - [A] - [B]	0–900	0–6200	—		
<b>Absolute Pressure</b>					
	PSI	kPa	mmHgA Code 6		
MP4307P - [A] - [B]	0–5	0–35	0–260		
MP4308P - [A] - [B]	0–10	0–70	0–520		
MP4309P - [A] - [B]	0–15	0–100	0–760		
MP4310P - [A] - [B]	0–20	0–140	0–1040		
MP4311P - [A] - [B]	0–30	0–200	0–1550		
MP4312P - [A] - [B]	0–50	0–350	—		
MP4313P - [A] - [B]	0–100	0–670	—		
MP4314P - [A] - [B]	0–150	0–1030	—		
MP4315P - [A] - [B]	0–300	0–2100	—		
MP4316P - [A] - [B]	0–500	0–3450	—		
MP4317P - [A] - [B]	0–900	0–6200	—		

### Accessories

Order #	Mfg #	Description	Price
MP4319P		Bench Stand	
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Transcat Accredited Calibration without Data			CALL

## Ashcroft Digital Pressure Indicators

- Single- or Dual-Sensor Models
- RS-232-C Interface with Baud Rates to 9600
- 0.1%, 0.05%, or 0.025% Span Accuracy
- Gauge/Differential 0.1% and 0.06%
- Adjustable Damping Levels

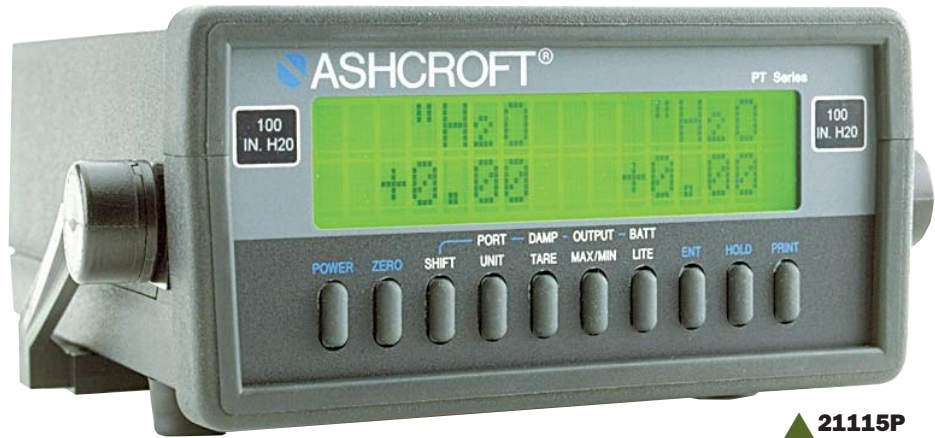
The 21115P digital indicators combine the latest in microprocessor and pressure sensor technology. This digital indicator is available in ranges from 0.25 inches of water through 10,000 PSI. Available in gauge, absolute, and differential pressure types, as well as vacuum, and ranges in both isolated and non-isolated configurations.

A single PT instrument can simultaneously display readings from one, or optionally, two installed pressure sensors.

All models include user-selectable engineering units, min/max recall, tare, programmable damping, display hold, an operator-configurable interface, and a push-to-print function for use with the RS-232-C interface. Display any two pressure measurement values in independent engineering units.

**All Units Include:** 110V line operation, backlit display, handle and panel-mount brackets, 1/8" FNPT input, and instructions.

**NOTE:** Other options and ranges are available; contact Transcat for more information.



▲ 21115P

### Ordering Instructions

To add the second sensor option, insert the code in the catalog number box. Leave the box blank if you are only ordering a single-range model. In models with two sensors, both must be of the same accuracy.

**NOTE:** For 220V line operation, add -220 to the catalog number.

### Ordering Information

Range	Order #	Price (0.1%)	Order #	Price (0.05%)	Order #	Price (0.025%)
<b>Non-Isolated</b>						
0-100 "H <sub>2</sub> O	MP21115P-100-□		MP21126P-100-□		—	—
0-150 "H <sub>2</sub> O	MP21115P-150-□		MP21126P-150-□		—	—
0-200 "H <sub>2</sub> O	MP21115P-200-□		MP21126P-200-□		—	—
<b>Isolated</b>						
-15 to 30 PSIG	MP21116P-1-□		MP21127P-1-□		MP21129P-C-□	
15 PSIG	MP21117P-1-□		MP21128P-1-□		MP21129P-1-□	
30 PSIG	MP21117P-3-□		MP21128P-3-□		MP21129P-3-□	
60 PSIG	MP21117P-4-□		MP21128P-4-□		MP21129P-4-□	
100 PSIG	MP21117P-5-□		MP21128P-5-□		MP21129P-5-□	
100 PSIA	MP21117P-7-□		MP21128P-7-□		MP21129P-7-□	
500 PSIG	MP21117P-9-□		MP21128P-9-□		MP21129P-9-□	
1000 PSIG	MP21117P-11-□		MP21128P-11-□		MP21129P-11-□	
2000 PSIG	MP21117P-13-□		MP21128P-13-□		MP21129P-13-□	
2500 PSIG	MP21117P-15-□		MP21128P-15-□		MP21129P-15-□	

### Specifications

Media Compatibility:	Ranges to 200 "H <sub>2</sub> O: clean, dry non-conductive gases; ranges above 10 PSI: liquids and gases compatible with 316SS
Engineering Units:	PSI, mmHg, "H <sub>2</sub> O, cmH <sub>2</sub> O, kg/cm <sup>2</sup> , BAR, mBAR and kPa
Repeatability:	±0.01% of span (PSI ranges) typical; ±0.01% of span (1-200 "H <sub>2</sub> O); ±0.02% of span (below 1 "H <sub>2</sub> O)
Resolution:	±0.002% of span (max)

### Specifications

Second Sensor's Range	Code	Price Adder (0.1%)	(0.05%)	(0.025%)
<b>Non-Isolated</b>				
0-100 "H <sub>2</sub> O	100			—
0-150 "H <sub>2</sub> O	150			—
0-200 "H <sub>2</sub> O	200			—
-15 to 30 PSIG	-4			
<b>Isolated</b>				
15 PSIG	-6			
30 PSIG	-8			
60 PSIG	-9			
100 PSIG	-10			
100 PSIA	-12			
200 PSIA	-13			
500 PSIG	-14			
1000 PSIG	-16			
2000 PSIG	-18			
2500 PSIG	-20			

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