

Introducing the next

BIGTHING

Precision & Performance at an affordable price!



Actual size!

DOMORE WITH LESS

0.2% of reading accuracy!

One M1 replaces several ordinary pressure gauges

Fully compensated!

No change in accuracy from -10°C (14°F) to 50°C (122°F)

Easy to read 5 digit display!

Large 17mm (0.66") numbers with a bright backlight

Up to 30,000 hours of service!

Runs on just two AA alkaline batteries

Housing and boot are compatible with many industrial fluids including Skydrol®





www.crystalengineering.net



>>> SPECIFICATIONS

► ACCURACY

20% to 100% of Full Scale:

 \pm (0.2% of Reading).

0 to 20% of Full Scale:

±(0.04% of Full Scale).

Vacuum, for 2MPa (300 PSI, 20 bar, 20kg/cm²) and lower pressure gauges:

0 to -99.9 kPa (-14.5 PSIG): $\pm (0.25\% \text{ of Full Scale}),$ where F.S.: -99.9 kPa (-14.5 PSIG). Not recommended for continuous use at high vacuum.

► TEMPERATURE

Operating & Compensated:

-10°C to 50°C (14°F to 122°F).

No change in accuracy over operating temperature range. Gauge must be zeroed to achieve rated specification.

Storage: -40°C to 75°C (-40°F to 167°F).

ENCLOSURE

Description: Water resistant housing incorporating o-ring seals. Polyester/Polycarbonate blend compatible with common industrial fluids, including Skydrol. IP65.

Weight: 325g (11.5 oz).

including batteries and protective boot.

CONNECTIONS

Pressure Connection: 1/4" NPT or G 1/4 B (BSP parallel fitting).

DISPLAY

Numeral Height: 16.8mm (0.66"). **Description:** 5 full digits.

Display Rate: 4 readings/second.

SENSOR

Piezoresistive silicon sensor with permanent oil isolation system and integral filter.

316 stainless steel welded (not brazed) sensor. No o-rings, thread tape, epoxy or sealant on any part of sensor assembly.

POWER

Battery: Two AA alkaline (LR6) batteries.

Standard Battery Life: 900 hours at 4 readings/second.

Extended Battery Life:

1 reading/15 seconds ... 3,000 hours 1 reading/30 seconds ... 6,000 hours 1 reading/1 minute..... 10,000 hours 1 reading/5 minutes.... 25,000 hours 1 reading/10 minutes.... 30,000 hours

► MEDIA COMPATIBILITY

1/4" NPT

Liquids and gases compatible with 316 stainless steel. Available cleaned for oxygen service.

▶ OVER SCALE LIMIT

Display will flash at 110% of Full Scale.

ADDITIONAL FEATURES

Vertical bar graph

 $\label{eq:minimum} \textbf{Minimum} \; (\text{LO}) \; \& \; \text{maximum} \; (\text{HI}) \; \text{capture}$

Averaging

(2 to 20 samples).

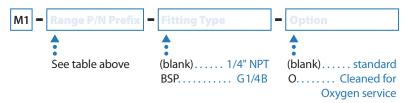
Specifications include linearity, hysteresis, repeatability, temperature and stability for one year.

ORDERING INFORMATION

•	PSI ¹ ▶	Pa ²	bar ¹	kg/cm ^{2¹}		Pressure Units and Resolution										
	P/N Prefix	P/N Prefix	P/N Prefix	P/N Prefix	Over- pressure	PSI	kPa	MPa	bar	mbar	kg/cm²	inch H₂O	inch Hg	mm H ₂ O	mm Hg	
	30PSI	200KPA	2BAR	2KG	3.0 x	0.001	0.01		0.0001	0.1	0.0001	0.1	0.01	1	0.1	
	100PSI	1MPA	10BAR	10KG	2.0 x	4 0.01	0.1	0.0001	0.001	1	0.001	₅ 0.1	0.01		1	
	300PSI	2MPA	20BAR	20KG	2.0 x	0.01	0.1	0.0001	0.001	1	0.001		0.1		1	
	1KPSI	10MPA	100BAR	100KG	2.0 x	0.1	1	0.001	0.01		0.01		0.1			
	3KPSI	20MPA	200BAR	200KG	1.5 x	0.1	1	0.001	0.01		0.01		1			
	10KPSI	70MPA	700BAR	700KG	1.5 x	1		0.01	0.1		0.1		1			

- PSI, BAR and KG models can display all available pressure units. KPA/MPA versions can display pressure in kPa, MPa, bar, and mbar only.
- Density of water can be set to 4°C, 60°F or 20°C /68°F with the keypad. ◆ Applies to 100PSI gauge. 1MPA, 10BAR and 10KG units will be 0.1 PSI.
- 5 Disabled for 1MPA, 10BAR and 10KG units.

M1 PART NUMBERING SYSTEM



SAMPLE PART NUMBERS

M1-300PSI

A 300 PSI gauge with the 1/4" (male) NPT connection fitting

M1-200KPA-BSP

A 200 kPa gauge with the G 1/4 B (BSPP) connection fitting M1-20BAR-BSP-O

A 20 bar gauge with the G 1/4 B (BSPP) connection fitting and cleaned for oxygen service





