

Introducing the next

# **BIG**THING

Precision & Performance at an affordable price!



Actual size!

## **DOMORE** WITH LESS



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.

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

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

 $\textbf{Minimum} \; (\text{LO}) \; \textbf{\&} \; \textbf{maximum} \; (\text{HI}) \; \textbf{capture}$ 

Averaging

1/4" NPT

(2 to 20 samples).

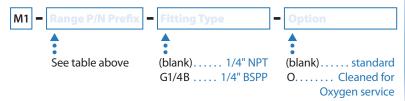
Specifications include linearity, hysteresis, repeatability, temperature and stability for one year.

## ▶ ▶ ▶ • ORDERING INFORMATION

•	PSI <sup>1</sup>	Pa <sup>2</sup>	bar <sup>1</sup>	kg/cm <sup>2</sup>	Over- pressure	Pressure Units and Resolution										
	P/N Prefix	P/N Prefix	P/N Prefix	P/N Prefix		PSI	kPa	MPa	bar	mbar	kg/cm²	inch H₂O	inch Hg	mm H₂O	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	0.01	0.0001	0.001	1	0.001	<sub>5</sub> 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/CM2 versions 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-G1/4B

A 200 kPa gauge with the G 1/4 B (BSPP) connection fitting

#### M1-20BAR-G1/4B-O

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



