

## ACCURACY

0 to 20% of Range:  $\pm(0.04\%$  of Full Scale)

20% to 110% of Range:  $\pm(0.2\%$  of Reading)

Vacuum:  $\pm(0.25\%$  of Full Scale\*)

\* Full Scale = -1.0 bar

*Includes all effects of linearity, hysteresis, repeatability, temperature, and stability for two years.*

*All models indicate vacuum, but vacuum specification applies to 2 bar, 10 bar, and 20 bar models only.*

*Not recommended for continuous use below -1.0 bar. Refer to [XP2i-DP data sheet](#) for gauges that are intended for continuous high vacuum use.*

## OPERATING TEMPERATURE

Temperature Range: **-10 to 50° C (14 to 122° F)**

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

## DISPLAY

Screen: **5 digits, 16.8 mm (0.66") high**

Display Rate: **4 readings/second**

*LCD readable in sunlight with bright backlight.*

## POWER

2 x AA: **900 hours, typical**

Extended Battery Life: **1 reading/15 seconds: 3,000 hours**

**1 reading/30 seconds: 6,000 hours**

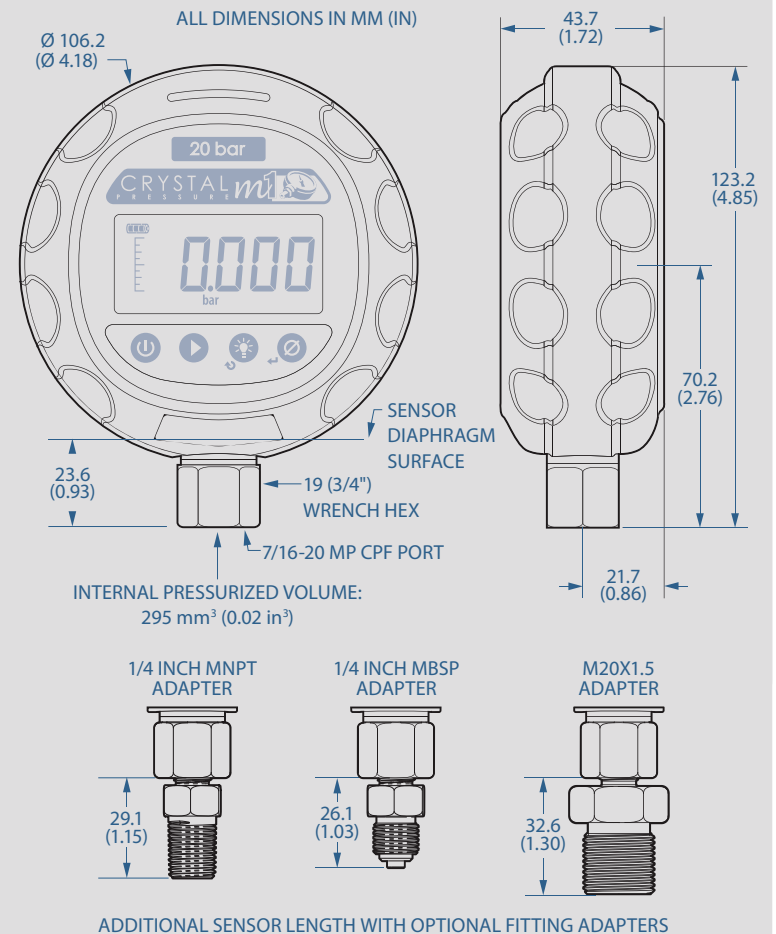
**1 reading/60 seconds: 10,000 hours**

**1 reading/5 minutes: 25,000 hours**

**1 reading/10 minutes: 30,000 hours**

*Uses 2 alkaline AA (LR6) batteries. Use of backlight reduces operating time. Extended battery life is keypad selectable. Do not overtighten rear cover when replacing batteries.*

# m1 Pressure Gauge bar



**ENCLOSURE**Weight: **331 g (11.7 oz)**Rating: **IP65**Housing: **Polyester/Polycarbonate Blend**Keypad and Labels: **UV Resistant Polyester***Weight includes batteries and protective boot.**Water resistant housing incorporating o-ring seals [IEC 60529].**LCD protected from impact damage by polycarbonate lens under polyester window.**Skydrol® compatible.***SENSOR**Wetted Materials: (WRENCH TIGHT) **316 stainless steel**(FINGER TIGHT) **316 stainless steel  
and Viton® (internal o-ring)**Diaphragm Seal Fluid: **Dow Corning® 200**Connection: **Crystal CPF Female***All welded, with a permanently filled diaphragm seal.**Metal to metal cone seal; O-ring can be removed if necessary.**1/4" medium pressure tube system compatible with HiP LM4 and LF4 Series, Autoclave Engr SF250CX Male and Female Series.**1/4" male NPT adapter included unless BSP or M20 is specified.***STORAGE TEMPERATURE**Temperature Range: **-40 to 75° C (-40 to 167° F)***Batteries should be removed if stored for more than one month.***SPECIAL FEATURES**Averaging: **Smooths unsteady readings (2 to 20 samples)**Vertical Bar Graph: **Percent pressure indication for quick reference**Capture: **Minimum (LO) and Maximum (HI)****CERTIFICATIONS**

m1 complies with the Electromagnetic Compatibility and Pressure Equipment Directives. Refer to the EC Declaration of Conformity for specific details.



m1 is approved for use as a portable test instrument for Marine use and complies with Det Norsjke Veritas' Rules for Classification of Ships, High Speed &amp; Light Craft, and Offshore Standards.

## RANGE & RESOLUTION TABLE

P/N	Range (bar)	Over-Pressure	Display Resolution									
			bar	mbar	kPa	MPa	PSI	in H <sub>2</sub> O	in Hg	mm Hg	mm H <sub>2</sub> O	kg/cm <sup>2</sup>
2BAR	2	3.0 x	0.0001	0.1	0.01		0.001	0.1	0.01	0.1	1	0.0001
10BAR	10	2.0 x	0.001	1	0.1	0.0001	0.01	0.1	0.01	1		0.001
20BAR	20	2.0 x	0.001	1	0.1	0.0001	0.01		0.1	1		0.001
100BAR	100	2.0 x	0.01		1	0.001	0.1		0.1			0.01
200BAR	200	1.5 x	0.01		1	0.001	0.1		1			0.01
700BAR	700	1.5 x	0.1			0.01	1		1			0.1

## ORDERING INFORMATION\*

Model	P/N	Adapter: Type
M1	_____	_____
	Standard:	NPT: (omit)
	Optional:	G 1/4 B: <b>-BSP</b>
		M20x1.5: <b>-M20</b>

### SAMPLE PART NUMBERS

M1-20BAR ..... 20 bar standard gauge, with a 1/4" NPT pressure fitting

M1-100BAR-BSP ..... 100 bar gauge, with a 1/4" BSP pressure fitting

\*BAR versions available in USA direct from factory only.

## ACCESSORIES



### Protective Boot P/N 3436 (included)

Protect your m1 from harsh environments with our form fitting chemical resistant thermoplastic boot (Skydrol fluid compatible).

## COMPLIMENTARY PRODUCTS

Crystal Engineering offers a wide range of products that work with the m1:

- [Fittings that connect without tools, safely and without leaks](#)
- [Lightweight, super flexible high pressure hoses](#)
- [Fitting kits and adapters](#)
- [Pneumatic hand pumps](#)
- [Hydraulic hand pumps](#)
- [Portable pressure comparators](#)

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