

**ACCURACY**

0 to 20% of Range: **±(0.04% of Full Scale)**

20% to 110% of Range: **±(0.2% of Reading)**

Vacuum: **±(0.25% of Full Scale\*)**

\* Full Scale = -1.0 kg/cm<sup>2</sup>

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

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

*Not recommended for continuous use below -1.0 kg/cm<sup>2</sup>. 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**

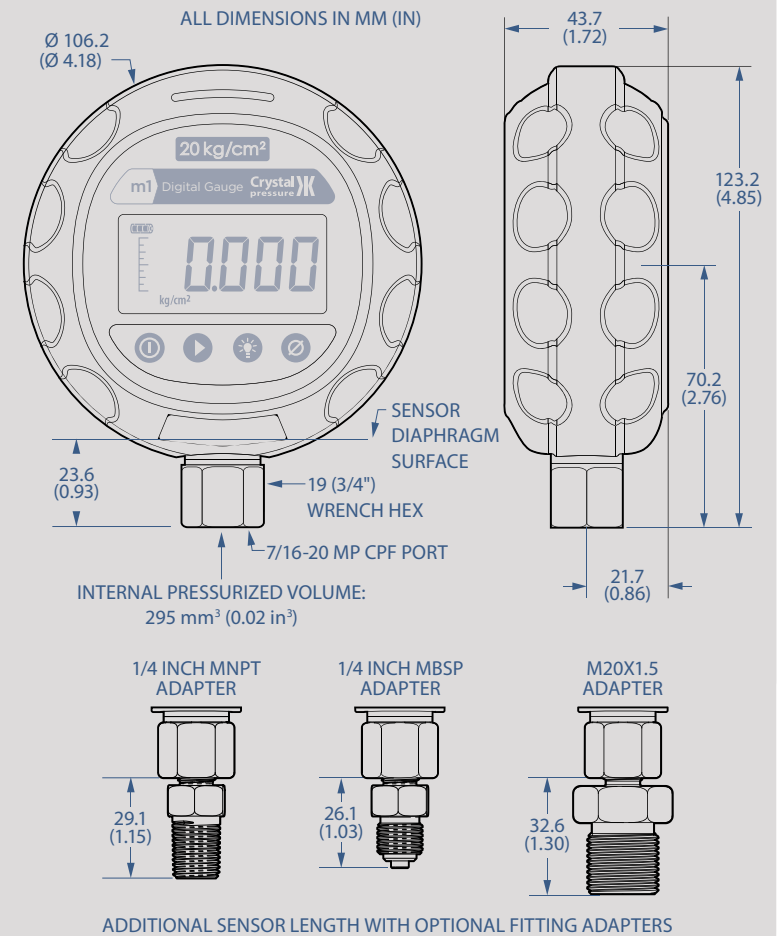
**1 reading/30 seconds: 6,000 hours**

**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.*



**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 & Light Craft, and Offshore Standards.

**RANGE & RESOLUTION TABLE**

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

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

M1-100KG-BSP ..... 100 kg gauge, with a 1/4" BSP pressure fitting

\*.KG 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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