

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 = -14.5 psig

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

All models indicate vacuum, but vacuum specification applies to 30 psi, 100 psi, and 300 psi models only.

Not recommended for continuous use below -14.5 psi. 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

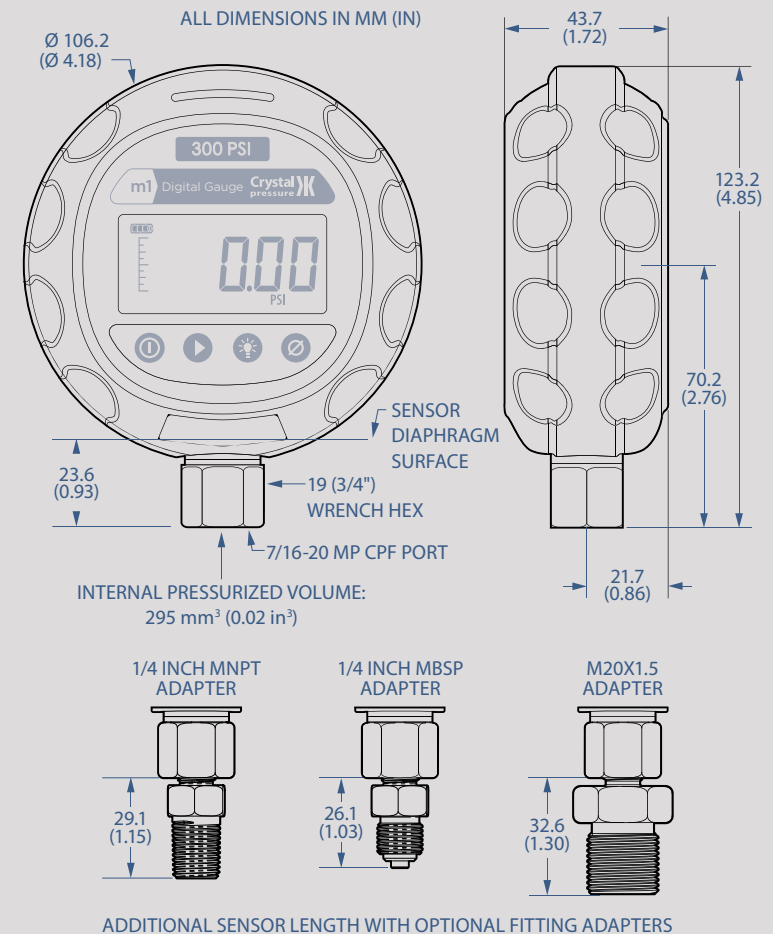
Screen: **5 digits, 16.8 mm (0.66") high**
 Display Rate: **4 readings/second**

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.



ENCLOSUREWeight: **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 (psi)	Over-pressure	Display Resolution									
			psi	in H ₂ O	in Hg	mm Hg	mm H ₂ O	kg/cm ²	bar	mbar	kPa	MPa
30PSI	30	3.0 x	0.001	0.1	0.01	0.1	1	0.0001	0.0001	0.1	0.01	
100PSI	100	2.0 x	0.01	0.1	0.01	1		0.001	0.001	1	0.1	0.0001
300PSI	300	2.0 x	0.01		0.1	1		0.001	0.001	1	0.1	0.0001
1KPSI	1000	2.0 x	0.1		0.1			0.01	0.01		1	0.001
3KPSI	3000	1.5 x	0.1		1			0.01	0.01		1	0.001
10KPSI	10000	1.5 x	1		1			0.1	0.1			0.01

ORDERING INFORMATION

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

SAMPLE PART NUMBERS

M1-300PSI 300 psi standard gauge, with a 1/4" NPT pressure fitting
M1-1KPSI-BSP 1000 psi gauge, with a 1/4" BSP pressure fitting

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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