

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.

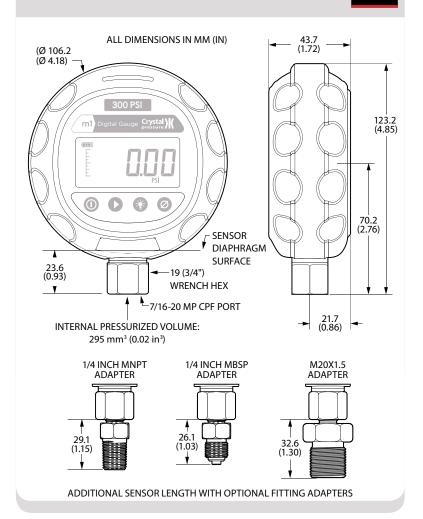
POWER

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.

m1 Pressure Gauge psi







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: Silicone Oil

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.

U.S. Patent No. 8,794,677

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)

m1 Pressure Gauge psi

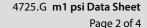
CERTIFICATIONS



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

			Display I	Resolutio	n							
P/N	Range (psi)	Over- pressure	psi	in H₂O	in Hg	mm Hg	mm H₂O	kg/cm²	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	10 000	1.5 x	1		1			0.1	0.1			0.01

ORDERING INFORMATION

Model	-	P/N	Adapter Type	CPF* Fitting Kits	Pump System**	Liquid (Systems C-H)	Carrying Case~	CPF Fitting Kits can only be ordered as part of a Pump System.		
Ml								All fittings are rated to 10 000 psi, with the exception of the MPF-1/2QTF rated to 5000 psi.		
		Standard:	NPT(omit)	No(omit)	No Pump(omit)			** Refer to the following page for a more detailed description of		
		Optional:	G 1/4 B BSP	NPT Kit (4013) N	System A (pneumatic) 0 to 30 psi	Full (omit) Aluminum (omit)		each Pump System.		
			M20x1.5 M20	BSP Kit (4015) B	System A (pneumatic) 0 to 580 psi	DrainedE	WaterproofW	The Waterproof Case is an option for Systems A, B, and C only.		
					System B (pneumatic) -25 inHg to 30 psi			The Waterproof Case is the only option for Systems G and H.		
Sy					System B (pneumatic) -25 inHg to 580 psiBHX	SAMPLE PART NUMBERS				
					System C (oil) 0 to 3000 psiCXX	M1-300PSI 300 psi standard gauge, with a 1/4" NPT pressure fitting				
					System C (oil) 0 to 5000 psiCHX	psi gauge, with a 1/4" BSP pressure fitting.				
					System D (oil) 0 to 5000 psi			Opsi standard gauge with an NPT CPF fitting kit; a System C		
					System D (water) 0 to 5000 psi		pump	o system; no liquid; and a waterproof carrying case.		
					System E (oil) 0 to 10 000 psiEOX					
					System F (oil) 0 to 15 000 psiFOV	▶ Ordering a Pump System Only				
					System F (water) 0 to 15 000 psiFWV	Any pump system, carrying case, and connection fittings for an m1 pressure gauge				
					System G (oil) 0 to 15 000 psiGOX	may be orde	ered separately from	the gauge. Enter M1-N0NE followed by the Pump		
System G (water) 0 to 15 000 psi							number and the Car	arrying Case option code.		
System H (oil/pneumatic) -25 inHg to 580 psi and 0 to 5000 psiHOX SAMPLE PART NUMBER						ART NUMBER				

M1-NONE-GOX-W System G pump system with a waterproof carrying case.













GaugeCalHP

PUMP SYSTEMS

All pump systems for the m1 include 1/4 NPT and BSP female fittings and a carrying case with custom insert. Additional fittings and accessories included with individual systems are listed below.

- Systems A... AXX (T-960), AHX (T-970) MPH-1 hose, bonded seals, o-ring kit, and teflon tape.
- ► Systems B... BXX (T-965), BHX (T-975-CPF) MPH-1 hose, bonded seals, o-ring kit, and teflon tape.
- Systems C... CXX (T-620), CHX (T-620H-CPF) MPH-1 hose, MPF-CAP, MPM-PLUG, bonded seals, o-ring kit, and teflon tape.
- Systems D... DOX and DWX (P-018-CPF) Bonded seals, o-ring kit, and teflon tape.
- System E... EOX (P014) Bonded seals, o-ring kit, and teflon tape.
- ► Systems F... FOV and FWV (T-1-CPF) Bonded seals, o-ring kit, and teflon tape.
- ► Systems G ... GOX and GWX (GaugeCalHP) Carrying case hold-down straps.
- System H... HOX (T-975-CPF and T-620H-CPF) MPF-CAP, MPM-PLUG, bonded seals, o-ring kit, and teflon tape.

CPF FITTING KITS

- ► **NPT Kit...** -N (4013) Includes MPF-1/8QTF, MPF-1/4QTF, and MPF-1/2QTF.
- ▶ BSP Kit... -B (4015) Includes MPF-1/8BSPF, MPF-1/4BSPF, MPF-3/8BSPF, and MPF-1/2BSPF.

m1 Pressure Gauge psi

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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