

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.

hi

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.

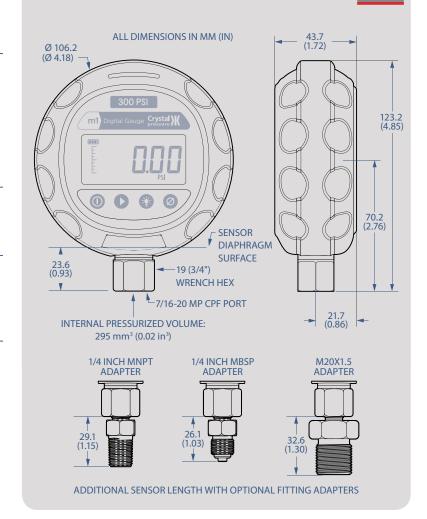
POWER

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].

 ${\it LCD\ protected\ from\ impact\ damage\ by\ polycarbonate\ lens\ under}$

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.

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

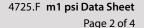
CERTIFICATIONS



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 Resolution									
	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

ORDERING INFORMATION											
		Adapter CPF*		CPF*		Liquid					
	Model — P/N Adapter Type		•	Fitting Kits	Pump System**	(Systems C-H)	Carrying Case				
	Ml	M1									
		Standard: NPT(omit) No(omit)			No Pump(omit)						
		Optional: G 1/4 B BSP NPT Kit (4013)		NPT Kit (4013) N	System A (pneumatic) 0 to 30 psi	Full (omit)	Aluminum(on				
			M20x1.5 M20	BSP Kit (4015) -B	System A (pneumatic) 0 to 580 psi	DrainedE	Waterproof				
					System B (pneumatic) -25 inHg to 30 psiBXX						
					System B (pneumatic) -25 inHg to 580 psiBHX	SAMPLE PART NU					
					System C (oil) 0 to 3000 psiCXX	M1-300PSI					
					System C (oil) 0 to 5000 psiCHX	M1-1KPSI-BSP					
					System D (oil) 0 to 5000 psiDOX						
					System D (water) 0 to 5000 psi		1				
					System E (oil) 0 to 10 000 psiEOX						
					System F (oil) 0 to 15 000 psiFOV	-FWV Any pump system, carrying					
					System F (water) 0 to 15 000 psiFWV						
					System G (oil) 0 to 15 000 psiGOX						
					System G (water) 0 to 15 000 psiGWX	System part	number and th				

System H (oil/pneumatic) -25 inHg to 580 psi and 0 to 5000 psi . . . - HOX

- * All fittings are rated to 10 000 psi, with the exception of the MPF-1/2QTF rated to 5000 psi.
- $**$ Refer to the following page for a more detailed description of each Pump System.
- ~ The Waterproof Case is an option for Systems A, B, and C only. The Waterproof Case is the only option for Systems G and H.

ERS

300 psi standard gauge, with a 1/4" NPT pressure fitting. 1000 psi gauge, with a 1/4" BSP pressure fitting. 3000 psi standard gauge with an NPT CPF fitting kit; a System C pump system; no liquid; and a waterproof carrying case.

tem Only

ng case, and connection fittings for an m1 pressure gauge ly from the gauge. Enter M1-NONE followed by the Pump System part number and the Carrying Case option code.

SAMPLE PART NUMBER

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



900 Ser

Ť

600 Ser



P-018-C



P01



T-1-0



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

Contact: Industrial Process Measurement, Inc. 3910 Park Avenue, Unit 7 Edison, NJ 08820 732-632-6400 support@calibratordepot.com http://www.calibratordepot.com/

4725.F m1 psi Data Sheet Page 4 of 4

