

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

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

 $2 \times AA$: 900 hours, typical

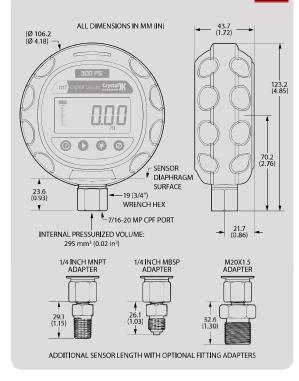
Extended Battery Life: 1 reading/15 seconds: 3,000 hours

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 operatina time, Extended battery life is keypad selectable, Do not overtighten rear cover when replacing batteries.



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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 IIEC 605291.

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

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

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.

ACCESSORIES



Protective Boot P/N 3436 (included)

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

■COMPLEMENTARY 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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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	10000	1.5 x	1		1			0.1	0.1			0.01

■ ODDEDING INFORMATION

ORDERING INFORM	MATION			
Model — P/N M1 Standard: Optional:	Adapter Type NPT (omit) G 1/4 BBSP M20x1.5M20	No Pump (omit) System AAXX System AAHX System BBHX System CCXX System CCXX System CCHX System DDOX System DDOWX System EEOX	Aluminum (omit) WaterproofW The Waterproof Case is an option for Systems A, B, and conly. The Waterproof Case is the only option for Systems G and H.	AMETEK offers a variety of solutions for pressure generation and measurement. Our line of products for pressure generation includes everything from small pneumatic hand pumps to a precision, hydraulic pressure comparator capable of generating up to 15 000 psi/1000 bar/100 MPa. All of our pumps may be ordered as part of a Pump System, complete with an m1 and delivered in a sturdy carrying case with custom insert. * Refer to the following page for a more detailed description of each pump system.
		System FFOV System GGOX System GGWX System HHOX	SAMPLE PART N M1-300PSI M1-1KPSI-BSP M1-3KPSI-CXX	300 psi standard gauge, with a 1/4" NPT pressure fitting.

▶ Ordering a Pump System Only

Any pump system, carrying case, and connection fittings for an m1 pressure gauge may be ordered separately from the gauge. Enter M1-N0NE followed by the Pump System part number and the Carrying Case option code.

SAMPLE PART NUMBER

 $\mbox{M1-N0NE-G0X-W} \dots \mbox{System G}$ pump system with a waterproof carrying case.

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PUMP SYSTEMS OVERVIEW

Pump			Case Options						
System	Part Number	Pressure Range	Pneumatic	Hydraulic	Hand Pump	Bench Top	Included Pump	Aluminum	Waterproof (Pelican Case)
System A	AXX	0 to 30psi /2 bar			-		T-960-CPF	•	■
	AHX	0 to 580 psi /40 bar	•		-		T-970-CPF	•	•
System B	BXX	-25 inHg to 30 psi /-0.85 to 2 bar	•		•		T-965-CPF	•	□ or)
	внх	-27 inHg to 580 psi /-0.91 to 40 bar	•		-		T-975-CPF	•	•
System C	CXX	0 to 3000 psi /200 bar		■ (Oil)	-		T-620-CPF	- (c	
	СНХ	0 to 5000 psi /350 bar		■ (Oil)	-		T-620H-CPF	•	•
System D	DOX	0 to 5000 psi /350 bar		■ (Oil)		•	P-018-CPF	-	
	DWX	0 to 5000 psi /350 bar		■ (Water)		•	1	-	
System E	EOX	0 to 10 000 psi /700 bar		■ (Oil)		•	P014-CPF		
System F	FOV	0 to 15 000 psi/1000 bar		■ (Oi l)		•	T-1-CPF	-	
	FWV	0 to 15 000 psi/1000 bar		■ (Water)		•	A	•	
System G	GOX	0 to 15 000 psi /1000 bar		■ (Oil)		•	GaugeCalHP		•
	GWX	0 to 15 000 psi / 1000 bar		■ (Water)		•			•
System H	НОХ	-27 inHg to 580 psi /-0.91 to 40 bar	-		-		T-975-CPF — (and)		•
		0 to 5000 psi /350 bar		■ (Oil)	-		T-620H-CPF		•

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AMETEK® SENSORS, TEST & CALIBRATION