

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.

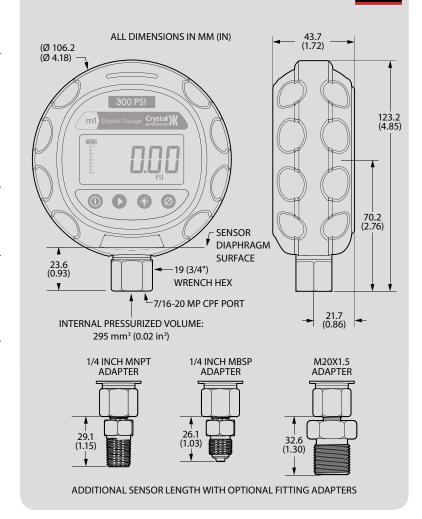
POWER

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.

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





RANGE & RESOLUTION TABLE

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

ORDERING INFORMATION

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

Pump System*	Carrying Case~	AMETEK offers a variety of solutions for pressure genera-						
		tion and measurement. Our line of products for pressure						
		generation includes everything from small pneumatic						
No Pump (omit)		hand pumps to a precision, hydraulic pressure comparator						
System AAXX	Aluminum (omit)							
System AAHX	WaterproofW	capable of generating up to 15 000 psi/1000 bar/100 MPa.						
System BBXX		All of our pumps may be ordered as part of a Pump System,						
System BBHX	∼ The Waterproof Case is	complete with an m1 and delivered in a sturdy carrying						
System CCXX	an <i>option</i> for Systems A, B,							
System CCHX	and C only.	Case with custom insert.						
System DDOX	The Waterproof Case is the only option for Systems	*Refer to the following page for a more detailed description						
System DDWX	G and H.	of each pump system.						
System EEOX								
System F FOV	CANADIEDADEA	HIMADEDS						
System FFWV	SAMPLE PART NUMBERS							
System GGOX	M1-300PSI	300 psi standard gauge, with a 1/4" NPT pressure fitting.						
System GGWX	M1-1KPSI-BSP 1000 psi gauge, with a 1/4" BSP pressure fitting.							
System HHOX	WI1-3KPSI-CXX	 -W 3000 psi standard gauge with a System C pump system and a waterproof carrying case. 						
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▶ 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

M1-N0NE-G0X-W . . . System G pump system with a waterproof carrying case.





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		•
	BXX	-25 inHg to 30 psi /-0.85 to 2 bar	•		•		T-965-CPF	•	•
System B	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	•	■
System C	CHX	0 to 5000 psi /350 bar		■ (Oil)	•		T-620H-CPF	•	•
System D	DOX	0 to 5000 psi /350 bar		■ (Oil)		•	P-018-CPF	-	
System D	DWX	0 to 5000 psi /350 bar		■ (Water)		-		-	
System E	EOX	0 to 10 000 psi /700 bar		■ (Oil)		•	P014-CPF	•	
System F	FOV	0 to 15 000 psi /1000 bar		■ (Oil)		•	T-1-CPF	-	
System F	FWV	0 to 15 000 psi /1000 bar		■ (Water)		•		-	
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		•

Contact: Industrial Process Measurement, Inc. 3910 Park Ave, Unit #7 Edison, NJ 08820 USA (732) 632-6400 support@instrumentation2000.com https://www.instrumentation2000.com/

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