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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 = -1.0 bar

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

All models indicate vacuum, but vacuum specification applies

to 2 bar, 10 bar, and 20 bar models only.

Not recommended for continuous use below -1.0 bar.

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

LCD readable in sunlight with bright backlight.

Display Rate: 4 readings/second

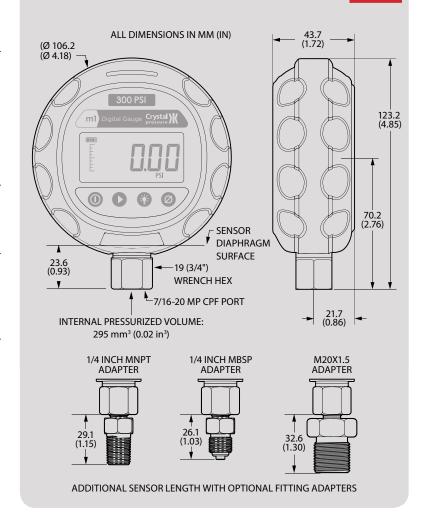
POWER

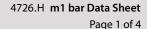
2 x AA: 900 hours, typical

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 bar









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 bar

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 (bar)	Over- Pressure	bar	mbar	kPa	MPa	psi	in H₂O	in Hg	mm Hg	mm H₂O	kg/cm²
2BAR	2	3.0 x	0.0001	0.1	0.01		0.001	0.1	0.01	0.1	1	0.0001
10BAR	10	2.0 x	0.001	1	0.1	0.0001	0.01	0.1	0.01	1		0.001
20BAR	20	2.0 x	0.001	1	0.1	0.0001	0.01		0.1	1		0.001
100BAR	100	2.0 x	0.01		1	0.001	0.1		0.1			0.01
200BAR	200	1.5 x	0.01		1	0.001	0.1		1			0.01
700BAR	700	1.5 x	0.1			0.01	1		1			0.1

■ORDERING INFORMATION*

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

Pump System*	Carrying Case~					
No Pump (omit)						
System AAXX	Aluminum (omit)					
System AAHX	WaterproofW					
System BBXX						
System BBHX	∼ The Waterproof Case is					
System CCXX	an option for Systems A, B,					
System CCHX	and C only.					
System DDOX	The Waterproof Case is the only option for Systems					
System DDWX	G and H.					
System E EOX						
System FFOV	SAMPLE PART NU					
System FFWV	M1-20BAR					
System GGOX						
System GGWX	M1-100BAR-BSP					

System H ... -HOX

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.

JMBERS

...... 20 bar standard gauge, with a 1/4" NPT pressure fitting. 100 bar gauge, with a 1/4" BSP pressure fitting. M1-200BAR-CXX-W 200 bar standard gauge with a System C pump system and a waterproof carrying case.

▶ 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.



^{*}BAR versions available in USA direct from factory only.



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	•	■
	АНХ	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	-	■
	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	-	■
	CHX	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)		•	6	•	
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	•	
	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		•

