m1 Pressure Gauge psi





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

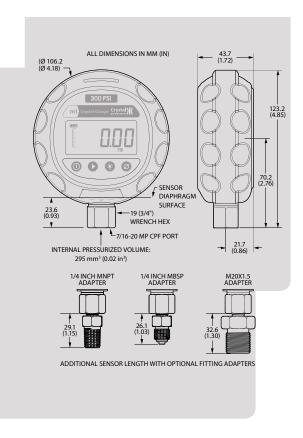
LCD readable in sunlight with bright backlight.
4725.H m1 psi Data Sheet

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.





Page 1 of 4



ENCLOSURE

SENSOR

Weight: 331 g (11.7 oz)

Keypad and Labels: UV Resistant Polyester

Housing: Polyester/Polycarbonate Blend

(FINGER TIGHT) 316 stainless steel

Averaging: Smooths unsteady readings (2 to 20 samples)

Vertical Bar Graph: Percent pressure indication for quick reference

Capture: Minimum (LO) and Maximum (HI)

and Viton® (internal o-ring)

Wetted Materials: (WRENCH TIGHT) 316 stainless steel

Connection: Crystal CPF* Female

Temperature Range: -40 to 75° C (-40 to 167° F)

Rating: IP65

Diaphragm Seal Fluid: Silicone Oil

STORAGE TEMPERATURE

SPECIAL FEATURES

m1 Pressure Gauge psi Weight includes batteries and protective boot.

All welded, with a permanently filled diaphragm seal.

Batteries should be removed if stored for more than

Metal to metal cone seal; O-ring can be removed if necessary.

 $1/4^{\prime\prime}$ 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.

4725.H m1 psi Data Sheet

polvester window

Skydrol® compatible.

U.S. Patent No. 8.794.677

Water resistant housing incorporating o-ring seals [IEC 60529].

LCD protected from impact damage by polycarbonate lens under

m1 complies with the Electromagnetic Compatibility and Pressure Equipment Directives. Refer to the EC Declaration

m1 is approved for use as a portable test instrument for Classification of Ships, High Speed & Light Craft, and



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

work with the m1:

- Fittings that connect without tools, safely and without leaks
- Lightweight, super flexible high pressure hoses
- Hydraulic hand pumps
- Portable pressure comparators

CERTIFICATIONS



of Conformity for specific details.



for Marine use and complies with Det Norsike Veritas' Rules Offshore Standards.

ACCESSORIES



Crystal Engineering offers a wide range of products that

- Fitting kits and adapters
- Pneumatic hand pumps



Page 2 of 4





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 |

| ORDERING INFOR | MATION | | | | |
|--|--|--|--|---|---|
| Model — P/N M1 — Standard: Optional: | Adapter Type ———————————————————————————————————— | Pump System* No Pump (omit) System AAXX System AAHX System BBHX System CCXX System CCXX System CCXX System CCXX System DDOX System DDOX System EEOX | Aluminum (omit) Waterproof | 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. | ► 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-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. |
| | | System FFOV System GGOX System GGWX System HHOX | SAMPLE PART N M1-300PSI M1-1KPSI-BSP M1-3KPSI-CXX | | AMETEK SENSORS, TEST & CALIBRAT |

Page 3 of 4

PUMP SYSTEMS OVERVIEW

| TOWN STSTEMS 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 | - | •r) | |
| | AHX | 0 to 580 psi /40 bar | • | | • | | 1.970-CPF | • | • | |
| System B | BXX | -25 inHg to 30 psi /-0.85 to 2 bar | - | | • | | 65-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 | • | ■ | |
| System C | CHX | 0 to 5000 psi /350 bar | | (Oil) | • | | T-620HaCPF | • | • | |
| System D | DOX | 0 to 5000 psi /350 bar | | ■ (Oil) | | - | P-018-CPF | - | | |
| | 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- P F | • | | |
| | FWV | 0 to 15 000 psi/1000 bar | | (Water) | | - | | - | | |
| System G | GOX | 0 to 15 000 psi/1000 bar | | (Oil) | | • | (JaugeCalHP | | • | |
| | 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 | | • | |

Page 4 of 4