XP2i-DP DifferentialPressure Gauge bar

DIFFERENTIAL PRESSURE ACCURACY

0 to 20% of Range: ±(0.02% of Full Scale + Static Line Effect*)

20% to 110% of Range: ±(0.1% of Reading + Static Line Effect*)

*Static Line Effect: 0.00002 bar/bar lowest static pressure.

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: 5.5 digits, 16.9 mm (0.67") high

Display Rate: 4 readings/second (standard) 8 readings/second (PSV mode)

PSV mode is intended for Pressure Safety Valve testing, and requires software to enable. (ConfigXP is a free download from ametekcalibration.com.)

POWER

3 x AA: 1500 hours, typical Ultra Low Power: > 1 year, typical*

Uses 3 alkaline AA (LR6) batteries. Use of backlight and/

or RS232 reduces operating time.

For hazardous location product warnings, refer to the

**20 minute recording interval or greater in LT5 mode.

DATA/COMMUNICATION

Digital Interface: RS232, DB-9F

Free Labview® drivers and programming instructions are available for download from website.

For hazardous location product warnings, refer to the

DATALOGGING

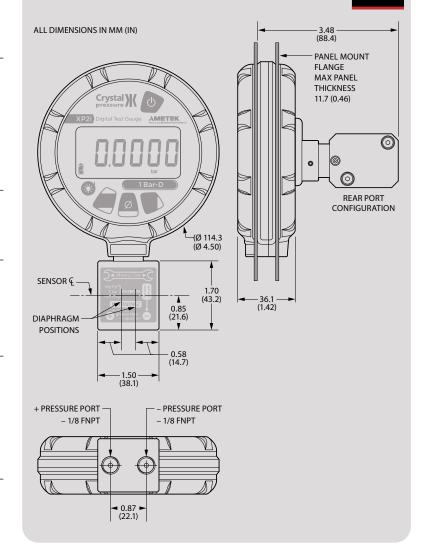
Capacity: 32 000 data points

Storage Type: Non-volatile flash memory

Minimum Interval: 1 second Maximum Interval: 18 hours Min. Event Duration: 250 mS*** DataLoggerXP Firmware Update may be purchased at time of order, or an Upgrade Package may be purchased afterward.

Software available for download from our website. Compatible with 32 & 64 bit Windows 7, Vista, and XP (32 bit only). Produces csv files, or uses Excel template files (samples included) to automatically format and graph data.

*** Logging Type - Average with Peaks.



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ENCLOSURE

Weight: 915 g (2.0 lbs)

Rating: IP67 Housing: Diecast aluminum Keypad and Labels: UV Resistant Polyester

Submersible to 1 m for 30 minutes [IEC 60529].

Nickel plating over low copper, marine grade aluminum LCD protected from impact damage by 1.5 mm (0.06") thick polycarbonate lens under polyester w

Skydrol® compatible. U.S. Patent D612277

SENSOR

Wetted Materials: 300 Series stainless steel and buna-n (internal o-ring)

Connection: 1/8" Female NPT

All welded, with a permanently filled diaphragm seal

Max. Static Line Pressure: 7 bar

STORAGE TEMPERATURE

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

SPECIAL FEATURES

The following requires the use of our free **ConfigXP** software

User Defined Unit: Allows the user to define and display any pressure units not included, or to use the gauge to display force, level, or other pressure related parameters.

Reduce or increase displayed resolution.

 ${\hbox{PSV Mode:}}\ \ \textbf{Intended for pressure safety valve / burst disk testing. 8 readings per second.}$

Captures point at which valve opens, as well as reseat pressu

Averaging: Smooths unsteady readings (1 to 10 samples). Remove: Unwanted pressure units from Units button.

Disable: Peak pressure button.

Limit or Disable: Zero button.

Password Protect: Changes to configuration or calibration factor(s).

Save: Configuration to a file.

Copy: Configuration can be copied to other gauges.

CERTIFICATIONS



II 1G Ex ia IIC T4/T3 Ga FTZU 12 ATEX 0048X





Ex ia IIC T4/T3 Ga IECEx FTZU 12.0009X



Exia Intrinsically Safe and Non-incendive for Hazardous Locations: Class I, Division 1, Groups A, B, C and D, Temperature Code T4 or T3C. For hazardous location product warnings, refer to the operation manual.



XP2i-DP complies with the Electromagnetic Compatibility and the Pressure Equipment Directives.



XP2i-DP complies with the Australian Radiocommunications (Electromagnetic Compatibility) Standard 2008.



XP2i-DP 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.

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XP2i-DP DifferentialPress

RANGE & RESOLUTION TABLE

Display Resolution

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P/N	Over pressure (+/- ports)	bar	mbar	kPa	MPa	psi	in H₂O	in Hg	mm Hg	mm H₂O	kg/cm²	
1BAR	6.5 x / 3.0 x	0.0001	0.1	0.01	0.00001	0.001	0.01	0.001	0.01	1	0.0001	
7BAR	2.0x / 2.0 x	0.0001	0.1	0.01	0.00001	0.01	0.1	0.01	0.1	1	0.0001	

ORDERING INFORMATION

P/N	Model	Connection: Location	Panel Mount?	Data-logging?		
	XP2i-DP					
	Standard:	Bottom: (omit)	No: (omit)	No: (omit)		
	Options:	Back: -RP	Yes: -F4	Yes: -DL		
		"omit" for -F4 panel mount	Includes -RP option			

SAMPLE PART NUMBERS

1BARXP2i-DP......1 bar differential gauge

7BARXP2i-DP-DL 7 bar differential gauge, with the DataLoggerXP option

STANDARD DELIVERY

- XP2i-DP Gauge
- Online Manual

ACCESSORIES

Protective Boot P/N 3696 Magnetic Hanging Strap P/N 5203 AC Adapter Kit P/N 2984 USB B to RS232 DB9M Cable P/N 3313 Waterproof Carrying Case P/N 2888

COMPLEMENTARY PRODUCTS

Crystal Engineering offers a wide range of products that work with the XP2i-

- Fittings that connect without tools, safely and without leaks
- · Lightweight, super flexible high pressure hoses
- Pneumatic hand pumps
- Hydraulic hand pumps
- Portable pressure comparators
- Software, for the quickest way to calibrate pressure transmitters and gauges

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