XP2i-DP DifferentialPressure Gauge **kPa**

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: 0.002 kPa/kPa lowest static pressure

temperature, and stability for one year.

For continuous vacuum use, connect to the right (-) port marked

OPERATING TEMPERATURE

Temperature Range: -10 to 50° C (14 to 122° F)

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)

ICD readable in sunlight with bright backlight.

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

Optional AC power supply available.

For hazardous location product warnings, refer to the

DATA/COMMUNICATION

Digital Interface: RS232, DB-9F

Free Labview® drivers and programming instructions are

For hazardous location product warnings, refer to the

DATALOGGING

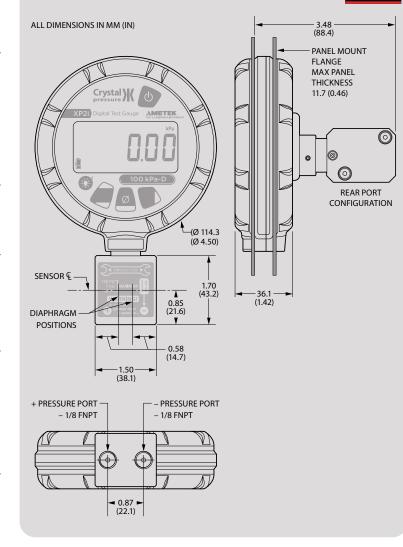
Capacity: 32 000 data points

Storage Type: Non-volatile flash memory

Minimum Interval: 1 second Maximum Interval: 18 hours Min Event Duration: 250 mS*** 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

U.S. Patent D612277

SENSOR

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

Connection: 1/8" Female NPT

Max. Static Line Pressure: 700 kPa

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.

PSV Mode: Intended for pressure safety valve / burst disk testing. 8 readings per second. Captures point at which valve opens, as well as reseat pressure.

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

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	P/N	Over pressure (+/- ports)	kPa	MPa	bar	mbar
	100KPA	6.5 x / 3.0 x	0.01	0.00001	0.0001	0.1
	700KPA	2.0x / 2.0 x	0.01	0.00001	0.0001	0.1

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

100KPAXP2i-DP. 100 kPa differential gauge

700KPAXP2i-DP-DL.....700 kPa differential gauge, with the DataLoggerXP option

STANDARD DELIVERY

- XP2i-DP Gauce
- XPZI-DP Gauge
- ISO 17025 Accredited Calibration Certificate, NIST Traceable
- Velorin Strain (except the -RP and -F4 ontion
- DRO Cover
- CPF Connection Fitting (ranges 10 000 psi and lower

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

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

Dow Corning is a registered trademark of Dow Corning Corporation.

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