DIFFERENTIAL PRESSURE ACCURACY

0 to 20% of Range: \pm (0.02% of Full Scale +

Static Line Effect*)

20% to 110% of Range: \pm (0.1% of Reading +

Static Line Effect*)

*Static Line Effect: 0.0003 psi/psi lowest static pressure.

Includes all effects of linearity, hysteresis, repeatability, temperature, and stability for one year.

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

"Vacuum this side."

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)

LCD 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 and/or RS232 reduces operating time.

Optional AC power supply available.

For hazardous location product warnings, refer to the

operation manual.

**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

operation manual.

DATALOGGING

Capacity: **32 000 data points**

Storage Type: Non-volatile flash memory

Minimum Interval: 1 second

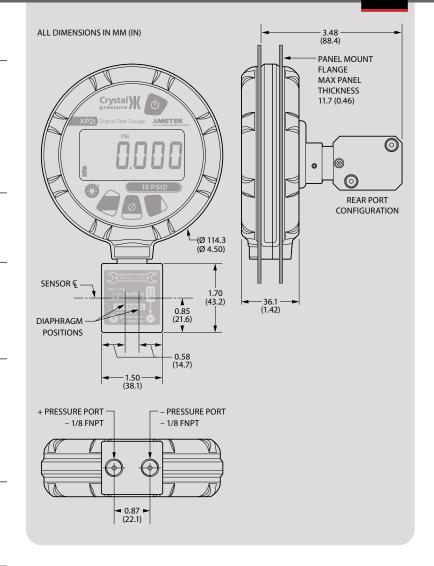
Maximum Interval: 18 hours

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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XP2i-DP DifferentialPressure Gauge **psi**

ENCLOSURE

Weight: 915 g (2.0 lbs)

Keypad and Labels: **UV Resistant Polyester**

Rating: **IP67**

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

Housing: Diecast aluminum

Nickel plating over low copper, marine grade aluminum.

LCD protected from impact damage by 1.5 mm (0.06") thick

polycarbonate lens under polyester window.

Skydrol® compatible.

Weight includes batteries.

U.S. Patent D612277

SENSOR

Wetted Materials: 300 Series stainless steel

and buna-n (internal o-ring)

Diaphragm Seal Fluid: **Dow Corning® 200**

Connection: 1/8" Female NPT

Max. Static Line Pressure: 100 psi

All welded, with a permanently filled diaphragm seal.

Optional connection on back.

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

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





XP2i-DP DifferentialPressure Gauge psi

RANGE & RESOLUTION TABLE

Display Resolution

	P/N	Over pressure (+/- ports)	psi	in H₂O	in Hg	mm Hg	mm H₂O	kg/cm²	bar	mbar	kPa	MPa
	15PSI	6.5 x / 3.0 x	0.001	0.01	0.001	0.01	1	0.0001	0.0001	0.1	0.01	0.00001
ĺ	100PSI	2.0x / 2.0x	0.01	0.1	0.01	0.1	1	0.0001	0.0001	0.1	0.01	0.00001

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

15PSIXP2i-DP15 psi differential gauge

100PSIXP2i-DP-DL 100 psi differential gauge, with the DataLoggerXP option

STANDARD DELIVERY

- XP2i-DP Gauge
- Online Manual
- ISO 17025 Accredited Calibration Certificate, NIST Traceable
- Velcro Strap (except the -RP and -F4 options)
- 3 x AA Batteries
- DB9 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 work with the XP2i-DP:

- 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

Dow Corning is a registered trademark of Dow Corning Corporation.