Crystal pressure

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:	0.0003 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

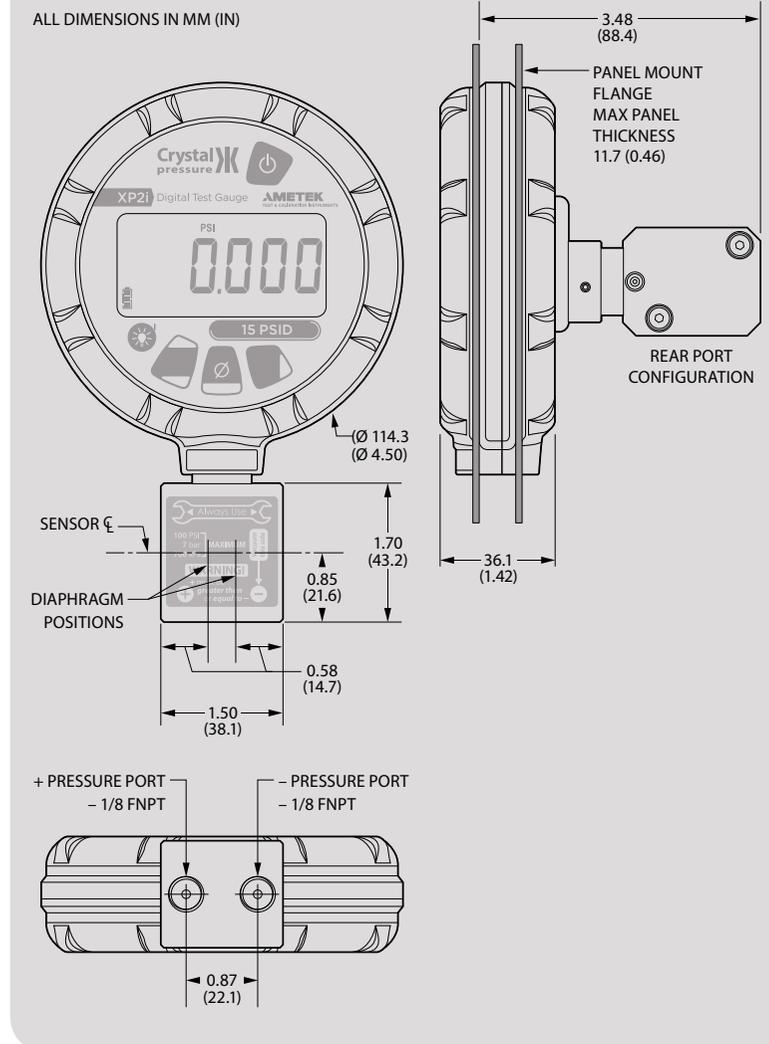|	
Capacity:	**32 000 data points**
Storage Type:	**Non-volatile flash memory**
Minimum Interval:	**1 second**
Maximum Interval:	**18 hours**
Min. Event Duration:	**250 mS*****

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.

ALL DIMENSIONS IN MM (IN)

3.48 (88.4)

PANEL MOUNT FLANGE MAX PANEL THICKNESS 11.7 (0.46)

REAR PORT CONFIGURATION

(Ø 114.3 (Ø 4.50)

SENSOR ℄

DIAPHRAGM POSITIONS

1.70 (43.2)

0.85 (21.6)

0.58 (14.7)

1.50 (38.1)

36.1 (1.42)

+ PRESSURE PORT – 1/8 FNPT

– PRESSURE PORT – 1/8 FNPT

0.87 (22.1)

AMETEK®
SENSORS, TEST & CALIBRATION

ENCLOSURE

Weight:	**915 g (2.0 lbs)**	*Weight includes batteries.*
Rating:	**IP67**	*Submersible to 1 m for 30 minutes [IEC 60529].*
Housing:	**Diecast aluminum**	*Nickel plating over low copper, marine grade aluminum.*
Keypad and Labels:	**UV Resistant Polyester**	*LCD protected from impact damage by 1.5 mm (0.06") thick polycarbonate lens under polyester window.*
		Skydrol® compatible.
		U.S. Patent D612277

SENSOR

Wetted Materials:	**300 Series stainless steel and buna-n (internal o-ring)**	*All welded, with a permanently filled diaphragm seal.*
		Optional connection on back.
Diaphragm Seal Fluid:	**Dow Corning® 200**	
Connection:	**1/8" Female NPT**	
Max. Static Line Pressure:	**100 psi**	

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.

AMETEK®
SENSORS, TEST & CALIBRATION

RANGE & RESOLUTION TABLE

P/N	Over pressure (+/- ports)	Display Resolution									
		psi	in H_2O	in Hg	mm Hg	mm H_2O	kg/cm^2	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
100PSI	2.0x / 2.0 x	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-DP . . . . **15 psi differential gauge**

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

STANDARD DELIVERY

- XP2i-DP Gauge
- CD Manual
- ISO 17025 Accredited Calibration Certificate, NIST Traceable

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.