Crystal

XP2i-DP DifferentialPressure Gauge **psi**

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DIFFERENTIAL PRESSURE ACCURACY		ALL DIMENSIONS IN MM (IN)	 3 (8
0 to 20% of Range: ±(0.02% of Full Scale + Static Line Effect*)	Includes all effects of linearity, hysteresis, repeatability, temperature, and stability for one year.		PA FL. MA TH
20% to 110% of Range: ±(0.1% of Reading + Static Line Effect*)	For continuous vacuum use, connect to the right (-) port marked "Vacuum this side."	Crystal X O pressure X O XP21 Digital Test Gauge MILTER MILTER Pol	
*Static Line Effect: 0.0003 psi/psi 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		(Ø 4.50)	
Screen: 5.5 digits, 16.9 mm (0.67") high	LCD readable in sunlight with bright backlight.		
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.)	DIAPHRAGM POSITIONS	2)
POWER			
3 x AA: 1500 hours, typical	Uses 3 alkaline AA (LR6) batteries. Use of backlight	0.58 (14.7) (38.1)	
Ultra Low Power: > 1 year, typical**	and/or RS232 reduces operating time.	' (38.1) '	
	Optional AC power supply available.	+ PRESSURE PORT	т
	For hazardous location product warnings, refer to the operation manual.		
DATA/COMMUNICATION	** 20 minute recording interval or greater in LT5 mode.)
Digital Interface: RS232, DB-9F	Free Labview [®] drivers and programming instructions are available for download from website.	- 0.87	
_	For hazardous location product warnings, refer to the operation manual.	(22.1)	
DATALOGGING			
Capacity: 32000 data points	DataLoggerXP Firmware Update may be purchased at time of order or an Upgrade Backage may be purchased afterward		
Storage Type: Non-volatile flash memory	order, or an Upgrade Package may be purchased afterward.		
Minimum Interval: 1 second	Software available for download from our website. Compatible with 32 & 64 bit Windows 7, Vista, and XP (32 bit only). Produces		
Maximum Interval: 18 hours	csv files, or uses Excel template files (samples included) to automatically format and graph data.		
Min. Event Duration: 250 mS***	**** Logging Type - Average with Peaks.	5179.B XP2i-DP psi Data Sheet Page 1 of 3	SENSORS, TEST & CALIBR

Crystal K

XP2i-DP DifferentialPressure Gauge psi

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)

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.

All welded, with a permanently filled diaphragm seal.

Optional connection on back.

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.

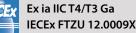
- Password Protect: Changes to configuration or calibration factor(s).
 - Save: Configuration to a file.
 - Copy: Configuration can be copied to other gauges.

CERTIFICATIONS



ll 1G Ex ia llC T4/T3 Ga FTZU 12 ATEX 0048X

EC.	TEC
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(B7869)

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.

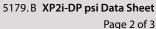
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CE

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
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
- 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.

Contact: Industrial Process Measurement, Inc. 3910 Park Avenue, Unit 7 Edison, NJ 08820 732-632-6400 support@instrumentation2000.com http://www.instrumentation2000.com

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