

ACCURACY

0 to 20% of Range: **±(0.02% of Full Scale)**

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

Vacuum: ±(0.25% of Full Scale*)

* Full Scale = -100.0 kPa

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

All models indicate vacuum, but vacuum specification applies to 100 kPa, 200 kPa, 700 kPa, and 2000 kPa models only.

Not recommended for continuous use below -100.0 kPa. Refer to XP2i-DP data sheet for gauges that are intended for continuous high vacuum use.

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 XP2i.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.

WARNING: Do not use AC power supply in hazardous locations.

**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.

WARNING: Do not use RS232 in hazardous locations.

DATALOGGING

Capacity: 32000 data points

Storage Type: Non-volatile flash memory

Minimum Interval: **1 second**Maximum Interval: **18 hours**

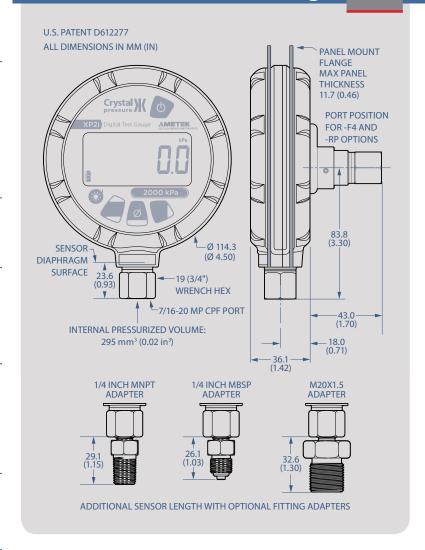
Min. Event Duration: 250 mS***

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.

XP2i Pressure Gauge kPa



4612. J XP2i kPa Data Sheet Page 1 of 3





ENCLOSURE

Weight: 562 g (19.8 oz)

Rating: IP67

Housing: **Diecast aluminum**

Keypad and Labels: **UV Resistant Polyester**

Weight includes batteries.

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 window.

Skydrol® compatible.

SENSOR

Wetted Materials: (WRENCH TIGHT) 316 stainless steel

(FINGER TIGHT) 316 stainless steel and Viton® (internal o-ring)

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

Connection: Crystal CPF Female

All welded, with a permanently filled diaphragm seal.

Metal to metal cone seal; O-ring can be removed if necessary.

Optional connection on back.

1/4" male NPT adapter included unless BSP, M20, or 100KKPA is

specified.

1/4" medium pressure tube system compatible with HiP LM4 and LF4 Series, Autoclave Engr SF250CX Male

and Female Series.

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.

XP2i Pressure Gauge kPa

CERTIFICATIONS



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

This product conforms to:

EN 60079-0: 2009 | EN 60079-11: 2012 | EN 60079-26: 2007





Ex ia IIC T4/T3 Ga IECEx FTZU 12.0009X

This product conforms to:

IEC 60079-0: 2011 | IEC 60079-11: 2011-06 | IEC 60079-26: 2006



Intrinsically Safe and Non-incendive for Hazardous Locations: Class I, Division 1, Groups A, B, C and D, Temperature Code T3C or T4/T3C.



XP2i complies with the Electromagnetic Compatibility and the Pressure Equipment Directives. Refer to the EC Declaration of Conformity for specific details.



The instrument was tested against **AS/NZS 3584**, C-tick EMC/EMI requirements.



XP2i 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.







RANGE & RESOLUTION TABLE

Display Resolution

		1				
P/N	Range (kPa)	Over- pressure	kPa	MPa	bar	mbar
100KPA	100	6.5 x	0.01	0.00001	0.0001	0.1
200KPA	200	3.0 x	0.01	0.00001	0.0001	0.1
700KPA	700	2.0 x	0.01	0.00001	0.0001	0.1
2KKPA	2000	2.0 x	0.1	0.0001	0.001	1
3KKPA	3000	2.0 x	0.1	0.0001	0.001	1
7KKPA	7000	2.0 x	0.1	0.0001	0.001	
14KKPA	14000	2.0 x	1	0.001	0.01	
20KKPA	20 000	1.5 x	1	0.001	0.01	
30KKPA	30 000	1.5 x	1	0.001	0.01	
70KKPA	70 000	1.5 x	1	0.001	0.01	
100KKPA	100 000	1.3 x	1	0.001	0.01	

ORDERING INFORMATION*

P/N	Model	Adapter: Type	Connection: Location	Panel Mount?	Data-logging?
	XP2i				
	Standard:	NPT: (omit)	Bottom: (omit)	No: (omit)	No: (omit)
	Options:	G 1/4 B: -BSP	Back: -RP	Yes: -F4	Yes: -DL
		M20x1.5: -M20	"omit" for -F4 panel mount	Includes -RP option	

SAMPLE PART NUMBERS

2KKPAXP2I . 2000 kPa standard gauge, with a 1/4" NPT pressure fitting 3KKPAXP2I-BSP 3000 kPa gauge, with a 1/4" BSP pressure fitting

Note: The 100KKPA gauge is available only with the CPF fitting.

XP2i Pressure Gauge **kPa**

ACCESSORIES



Protective Boot P/N 3696

Protect your XP2i even more from harsh environments with our form fitting chemical resistant thermoplastic boot (Skydrol fluid compatible).

AC Adapter Kit P/N 2984

For continous use applications without battery replacement concern. Input voltage: 100 - 240V, 50-60 Hz. Includes all available international plugs. (Not for use in hazardous locations.)

COMPLIMENTARY 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
- Complete Calibration Kits
- Pneumatic hand pumps
- Hydraulic hand pumps
- Portable pressure comparators
- Software, for the quickest way to calibrate pressure transmitters and gauges

Autoclave Engineers Fluid Components is a division of Snap-tite, Inc. Dow Corning is a registered trademark of Dow Corning Corporation. HiP is High Pressure Equipment Company.

Viton is a registered trademark of DuPont Performance Elastomers.



^{*}KPA versions available in USA direct from factory only.