

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 = -1.0 bar

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

All models indicate vacuum, but vacuum specification applies to 1 bar, 2 bar, 7 bar, and 20 bar models only.

Not recommended for continuous use below -1.0 bar. 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

Single Line Display: 16.9 mm (0.67") high

Dual Line Display: Main Display: 13.9 mm (0.55")

Secondary Display: 5.3 mm (0.21")

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

Uses 3 alkaline AA (LR6) batteries. Use of backlight and/or RS232 reduces operating time.

Ultra Low Power: > 1 year, typical**

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: 32 000 data points

Storage Type: Non-volatile flash memory

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

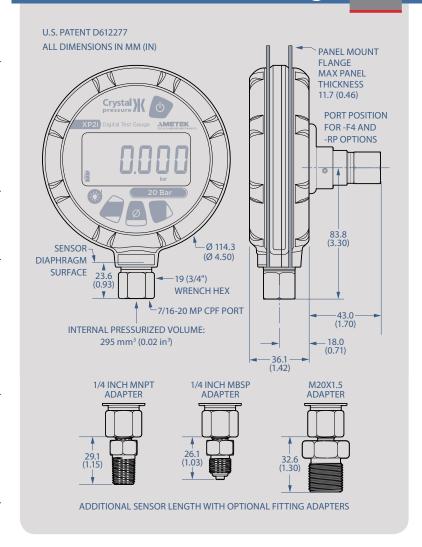
Min. Event Duration: 250 mS***

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.

XP2i Pressure Gauge bar



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ENCLOSURE

Weight: 562 g (19.8 oz)

Rating: IP67

Housing: **Diecast aluminum**

Keypad and Labels: UV Resistant Polyester

SENSOR

Wetted Materials: (WRENCH TIGHT) 316 stainless steel

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

Diaphragm Seal Fluid: **Silicone Oil**

Connection: Crystal CPF Female

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.

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 1KBAR 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 bar

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.



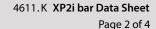
XP2i complies with the Electromagnetic Compatibility and the Pressure Equipment Directives. Refer to the EC Declaration of Conformity for specific details.



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										
P/N	Range (bar)	Over- pressure	bar	mbar	kPa	MPa	psi	in H₂O	in Hg	mm Hg	mm H₂O	kg/cm²
1BAR	1	6.5 x	0.0001	0.1	0.01	0.00001	0.001	0.01	0.001	0.01	1	0.0001
2BAR	2	3.0 x	0.0001	0.1	0.01	0.00001	0.001	0.01	0.001	0.1	1	0.0001
7BAR	7	2.0 x	0.0001	0.1	0.01	0.00001	0.01	0.1	0.01	0.1	1	0.0001
20BAR	20	2.0 x	0.001	1	0.1	0.0001	0.01	0.1	0.01	1		0.001
30BAR	30	2.0 x	0.001	1	0.1	0.0001	0.01	1	0.1	1		0.001
70BAR	70	2.0 x	0.001		0.1	0.0001	0.1		0.1			0.001
140BAR	140	2.0 x	0.01		1	0.001	0.1		0.1			0.01
200BAR	200	1.5 x	0.01		1	0.001	0.1		0.1			0.01
300BAR	300	1.5 x	0.01		1	0.001	0.1		1			0.01
700BAR	700	1.5 x	0.01		1	0.001	1					0.01
1KBAR	1000	1.3 x	0.01		1	0.001	1					0.01

System G pump system with a waterproof carrying case.

ORDERING INFORMATION*

P/N	Model	Dual Display	Adapter Type	Connection Location	Data-logging	CPF* Fitting Kits	Pump System**	Liquid (Systems C-H)	Carrying Case~		
	XP2I										
	Standard:	No(omit)	NPT(omit)	Bottom (omit)	No (omit)	No(omit)	No Pump(omit)				
	Optional:	Yes DD	G 1/4 B BSP	BackRP	Yes DL	NPT Kit (4013) N	System A (pneumatic) 0 to 2 barAXX	Full (omit)	Aluminum (omit)		
			M20x1.5 M20	Panel Mount F4		BSP Kit (4015) B	System A (pneumatic) 0 to 40 barAHX	DrainedE	WaterproofW		
SAMPLE PART NUMBERS							System B (pneumatic) -0.91 to 2 barBXX				
20BARXP2I 20 bar standard gauge, with a 1/4" NPT pressure fitting.							System B (pneumatic) -0.91 to 40 bar				
300BARXP2I-BSP-DL 300 bar gauge, with a 1/4" BSP pressure fitting and Data-logging.							System C (oil) 0 to 200 barCXX				
700BARXP2I-DD-N-GWX-E-W						System C (oil) 0 to 350 barCHX	 * All fittings are rated to 700 bar, with the exception of the MPF-1/2QTF rated to 350 bar. ** Refer to the following page for a more detailed description of 				
pump system; no liquid; and a waterproof carrying case. Note: The 1KBAR gauge is available only with the CPF fitting.											System D (oil) 0 to 350 bar
											System D (water) 0 to 350 barDWX
											System E (oil) 0 to 700 bar
▶ Ordering a Pump System Only Any pump system, carrying case, and connection fittings for an XP2i pressure gauge may be ordered separately from the gauge. Enter XP2I-NONE followed by the Pump System part number and the Carrying Case option code.						System F (oil) 0 to 1000 barFOV	The Waterproof Case is an option for Systems A, B, and C o				
						System F (water) 0 to 1000 bar	The Waterproof Case is <i>the only option</i> for Systems G and H.				
						System G (oil) 0 to 1000 bar					
							System G (water) 0 to 1000 bar	/X			
SAMPLE PART NUMBER						System H (oil/pneumatic) -0.91 to 40 bar and 0 to 350 barHOX	OX .				

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

XP2I-NONE-GWX-W

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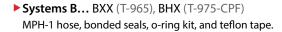


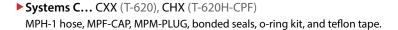


PUMP SYSTEMS

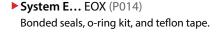
All pump systems for the XP2i include 1/4 NPT and BSP female fittings and a carrying case with custom insert. Additional fittings and accessories included with individual systems are listed below.

Systems A... AXX (T-960), AHX (T-970) MPH-1 hose, bonded seals, o-ring kit, and teflon tape.





► Systems D... DOX and DWX (P-018-CPF) Bonded seals, o-ring kit, and teflon tape.



► Systems F... FOV and FWV (T-1-CPF) Bonded seals, o-ring kit, and teflon tape.

► Systems G ... GOX and GWX (GaugeCalHP) Carrying case hold-down straps.

System H... HOX (T-975-CPF and T-620H-CPF) MPF-CAP, MPM-PLUG, bonded seals, o-ring kit, and teflon tape.

CPF FITTING KITS

► **NPT Kit...** -N (4013) Includes MPF-1/8QTF, MPF-1/4QTF, and MPF-1/2QTF.

▶ BSP Kit... -B (4015) Includes MPF-1/8BSPF, MPF-1/4BSPF, MPF-3/8BSPF, and MPF-1/2BSPF.













GaugeCalHP

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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).

XP2i Pressure Gauge bar

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. HiP is High Pressure Equipment Company. Viton is a registered trademark of DuPont Performance Elastomers.