

ACCURACY

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

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

Vacuum: ±(0.25% of Full Scale*)

* Full Scale = -14.5 psig

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

All models indicate vacuum, but vacuum specification applies to 15 psi, 30 psi, 100 psi, and 300 psi models only.

Not recommended for continuous use below -14.5 psi. 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)

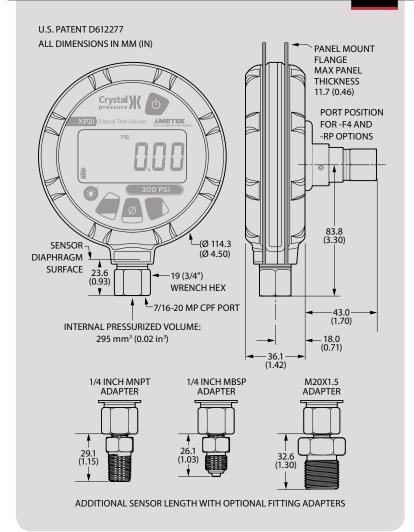
8 readings/second (PSV mode)

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.)

XP2i Pressure Gauge **psi**









POWER

The XP2i is Intrinsically Safe only if powered by one of the following battery types.

ATEX/IECEx:

P	Approved Battery Type	Ta=	Marking		
F	Rayovac Max Plus 815	20 to 50°C	Ex ia IIC T4 Ga		
E	Energizer E91	-20 to 50°C			
E	Energizer EN91	-20 to 50° C	Ex ia IIC T3 Ga		
	Duracell MN1500	-20 to 50 C	EX Id IIC 13 Gd		

CSA

١:	Approved Battery Type	Ta=	Marking		
	Rayovac Max Plus 815	-20 to 45° C Class I, Division 1, A, B, C, D T4			
-	Energizer E91		Class I, Division 1, A, B, C, D T3C		
	Energizer EN91	-20 to 50° C			
	Rayovac Max Plus 815				

 $3 \times AA$: 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

DATALOGGING

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.

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 csy files, or uses Excel template files (samples included) to

automatically format and graph data.

*** Logging Type - Average with Peaks.

XP2i Pressure Gauge psi

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



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 complies with the Electromagnetic Compatibility and the Pressure Equipment Directives.



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.



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ENCLOSURE

Weight: **562 g (19.8 oz)**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.

For hazardous location product warnings, refer to the

operation manual.

SENSOR

Wetted Materials: (WRENCH TIGHT) 316 stainless steel

All welded, with a permanently filled diaphragm seal.

(FINGER TIGHT) **316 stainless steel**Metal to metal cone seal; O-ring can be removed if necessary.

and Viton® (internal o-ring) Optional connection on back.

Diaphragm Seal Fluid: Silicone Oil 1/4" male NPT adapter included unless BSP, M20, or 15KPSI is

specified.

Connection: Crystal CPF • Female

1/4" medium pressure tube system compatible with

HiP LM4 and LF4 Series, Autoclave Engr SF250CX Male

and Female Series.

STORAGE TEMPERATURE *U.S. Patent No. 8,794,677

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.





RANGE & RESOLUTION TABLE

	Display Resolution											
P/N	Range (psi)	Over- pressure	psi	in H₂O	in Hg	mm Hg	mm H₂O	kg/cm²	bar	mbar	kPa	MPa
15PSI	15	6.5 x	0.001	0.01	0.001	0.01	1	0.0001	0.0001	0.1	0.01	0.00001
30PSI	30	3.0 x	0.001	0.01	0.001	0.1	1	0.0001	0.0001	0.1	0.01	0.00001
100PSI	100	2.0 x	0.01	0.1	0.01	0.1	1	0.0001	0.0001	0.1	0.01	0.00001
300PSI	300	2.0 x	0.01	0.1	0.01	1		0.001	0.001	1	0.1	0.0001
500PSI	500	2.0 x	0.01	1	0.1	1		0.001	0.001	1	0.1	0.0001
1KPSI	1000	2.0 x	0.1		0.1			0.001	0.001		0.1	0.0001
2KPSI	2000	2.0 x	0.1		0.1			0.01	0.01		1	0.001
3KPSI	3000	1.5 x	0.1		0.1			0.01	0.01		1	0.001
5KPSI	5000	1.5 x	0.1		1			0.01	0.01		1	0.001
10KPSI	10 000	1.5 x	1					0.01	0.01		1	0.001
15KPSI	15 000	1.3 x	1					0.01	0.01		1	0.001

ORDERING INFORMATION

P/N	Model	Dual Display	Adapter Type	Connection Location	Data-logging	CPF* Fitting Kits	Pump System**	Liquid (Systems C-H)	arrying 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 30 psi	Full (omit) Alu	minum (omit)		
			M20x1.5 M20	Panel MountF4		BSP Kit (4015) B	System A (pneumatic) 0 to 580 psi	DrainedE Wat	terproofW		
							System B (pneumatic) -25 inHg to 30 psiBXX	* CPF Fitting Kits can <i>only</i> be ordered as part of a Pump Syst			
SAMPLE PA	RT NUMBER	S					System B (pneumatic) -25 inHg to 580 psiBHX				
300PSIXP2	?I		300 psi standard	gauge, with a 1/4" NF	PT pressure fitting.		System C (oil) 0 to 3000 psiCXX	All fittings are rated to 10 000 psi, with the exception of the MPF-1/2QTF rated to 5000 psi.			
5KPSIXP2I	-BSP-DL		5000 psi gauge, v	vith a 1/4" BSP pressu	ire fitting and Data	-logging.	System C (oil) 0 to 5000 psiCHX				
10KPSIXP2i-DD-N-GWX-E-W							System D (oil) 0 to 5000 psi	** Refer to the following page for a more detailed descript each Pump System.			
pump system; no liquid; and a waterproof carrying case.							System D (water) 0 to 5000 psi	The Waterproof Case is an option for Systems A, B, and			
			Note: The 15KPSI ga	uge is available only w	System E (oil) 0 to 10 000 psiEOX	The Waterproof Case is the only option for Systems G a					
					System F (oil) 0 to 15 000 psiFOV						
Ordering a Pump System Only Any pump system, carrying case, and connection fittings for an XP2i pressure gauge may be ordered							System F (water) 0 to 15 000 psiFWV	GOX SWX			
							System G (oil) 0 to 15 000 psiGOX				
separately from the gauge. Enter XP2I-NONE followed by the Pump System part number and the Carrying Case option code.						System G (water) 0 to 15 000 psiGWX					
						System H (oil/pneumatic) -25 inHg to 580 psi and 0 to 5000 psiHOX					

SAMPLE PART NUMBER

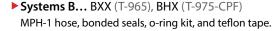


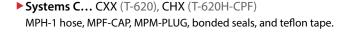
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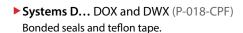
PUMP SYSTEMS

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.







System E... EOX (P014) Bonded seals and teflon tape.

► Systems F... FOV and FWV (T-1-CPF) Bonded seals 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.



The Right Source For Your Test & Measurement Needs

XP2i Pressure Gauge psi

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. For hazardous location product warnings, refer to the operation manual.

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.



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