ACCURACY

Standard Accuracy Version (-10 to 50°C)

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

20% to 110% of Range: ± (0.1% of Reading)

Vacuum: ± (0.25% of Full Scale**)

-S5 Accuracy Option (-10 to 50° C)

Vacuum to 110% of Range: ± (0.05% of Full Scale*)

-S2 Accuracy Option

Vacuum to 110% of Range: ± (0.02% of Full Scale*) 15 to 25° C

± (0.05% of Full Scale*) -10 to 15° C,

25 to 50° C, typical

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

LCD readable in sunlight with bright backlight.

is a free download

PSV mode is intended for Pressure Safety Valve

testing, and requires software to enable. (ConfigXP

Includes all effects of linearity, hysteresis, repeatability,

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

temperature, and stability for one year.

continuous high vacuum use.

*Full Scale is 100% of the range **Full Scale = -14.5 psig

specification.

DISPLAY

Screen: 5.5 digits

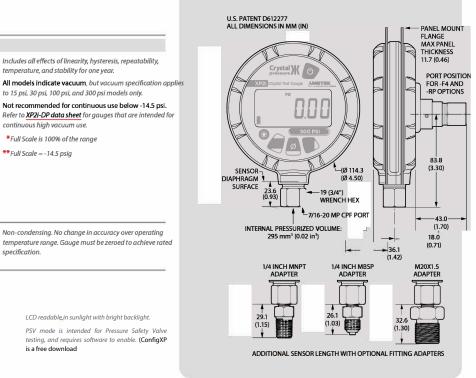
Single Line Display: 16.9 mm (0.67") high

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)



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Crystal \

POWER

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

ATEX/IECEx:

Approved Battery Type	Ta=	Marking		
Rayovac Max Plus 815	20 to 50% C	Ex ia IIC T4 Ga		
Energizer E91	-20 to 50°C			
Energizer EN91	30 to 50° C	Ex ia IIC T3 Ga		
Duracell MN1500	-20 to 50° C			

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

 $3 \times AA$: 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.

**20 minute recording interval or greater in LT5 mode.

For hazardous location product warnings, refer to the

DATA/COMMUNICATION

Digital Interface: RS232, DB-9F For hazardous location product warnings, refer to the

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. Produces csv files, or uses Excel template files (samples included) to automatically format and graph data.

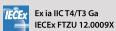
*** Logging Type - Average with Peaks.

XP2i Pressure Gauge **psi**

CERTIFICATIONS

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







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.



XP2i complies with the Australian Radiocommunications (Electromagnetic Compatibility) Standard 2008.



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)

Rating: IP66 and 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.

For hazardous location product warnings, refer to the

operation manual.

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

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 15KPSI is

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

◆ U.S. Patent No. 8,794,677

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 **psi**

STANDARD DELIVERY

- XP2i Gauge
- · Online Manual
- ISO 17025 Accredited Calibration Certificate, NIST Traceable
- · Velcro Strap (except the -RP and -F4 options)
- · 3 x AA Batteries
- DB9 Cover
- CPF Connection Fitting (ranges 10 000 psi and lower)

■ 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:

- Discounted three year calibration program
- 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

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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RANGE & RESOLUTION TABLE

			Display	Resolutio	n							
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	10000	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 Accuracy Adapter Type Connection Location Data logging	Pump System* Carrying Case AMETEK offers a variety of solutions for tion and measurement. Our line of prod generation includes everything from sm hand pumps to a precision, hydraulic pr System AAHX WaterproofW capable of generating up to 15 000 psi/	lucts for pressure nall pneumatic ressure comparator
SAMPLE PART NUMBERS 300 PSIXP2I	System B BXX System B BHX System C CXX System C CHX System D DOX System D DOX System D DWX System E EOX System E EOX All of our pumps may be ordered as par complete with an XP2i and delivered in case with custom insert. acse with custom insert. *Refer to the following page for a more of each pump system.	a sturdy carrying
► 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-N0NE followed by the Pump System part number and the Carrying Case option code. SAMPLE PART NUMBER XP2I-N0NE-BHX-W	System FFOV System GGOX System GGWX System HHOX	

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CPF Adapter Fitting is not included.





PUMP SYSTEMS OVERVIEW

Pump							Case Options		
System	Part Number	Pressure Range	Pneumatic	Hydraulic	Hand Pump	Bench Top	Bench Top Included Pump		Waterproof (Pelican Case)
System A	AXX	0 to 30psi /2 bar	-		-		T-960-CPF	• (c	-
	AHX	0 to 580 psi /40 bar	-		-		T-970-CPF		•
System B	BXX	-25 inHg to 30 psi /-0.85 to 2 bar	•		•		T-965-CPF	•	• • • • • • • • • • • • • • • • • • •
System 6	внх	-27 inHg to 580 psi /-0.91 to 40 bar	•		•		T-975-CPF	•	•
System C	CXX	0 to 3000 psi/200 bar		■ (Oil)	•		T-620-CPF	(c	r)
System C	CHX	0 to 5000 psi /350 bar		■ (Oil)	•		T-620H-CPF	•	•
System D	DOX	0 to 5000 psi /350 bar		■ (Oil)		-	P-018-CPF	•	
System D	DWX	0 to 5000 psi /350 bar		■ (Water)		-	1	•	
System E	EOX	0 to 10 000 psi /700 bar		■ (Oil)		•	P014-CPF	•	
System F	FOV	0 to 15 000 psi/1000 bar		■ (Oi l)		-	T-1-CPF	•	
system r	FWV	0 to 15 000 psi/1000 bar		■ (Water)		•	A."	•	
System C	GOX	0 to 15 000 psi/1000 bar		■ (Oil)		•	GaugeCalHP		•
System G	GWX	0 to 15 000 psi/1000 bar		■ (Water)		-			•
System !!	HOX	-27 inHg to 580 psi /-0.91 to 40 bar	•		•		T-975-CPF — (and)		•
System H	ПОХ	0 to 5000 psi /350 bar		■ (Oil)			T-620H-CPF		•

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SENSORS, TEST & CALIBRATION