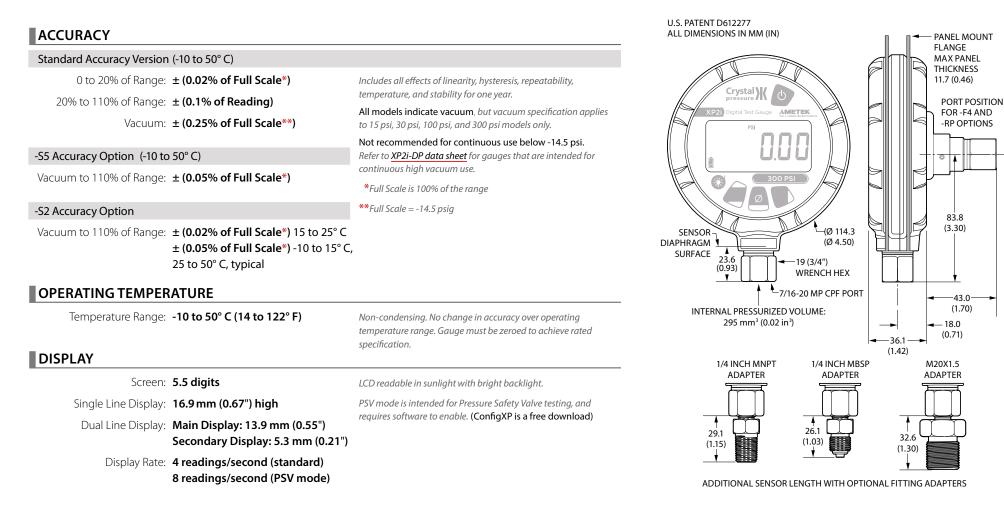
Crystal

XP2i Pressure Gauge psi





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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	Ex la IIC 14 Ga		
	Energizer EN91	-20 to 50° C	Ex ia IIC T3 Ga		
	Duracell MN1500	-20 10 30 C	EX Id IIC 15 Ga		

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 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.

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

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

DATA/COMMUNICATION

Digital Interface: RS232, DB-9F

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

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.



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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)	Weight includes batteries.				
Rating:	IP66 and IP67	Submersible to 1 m for 30 minutes [IEC 60529].				
Housing:	Diecast aluminum	Nickel plating over low copper, marine grade aluminum.				
5	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 i				
Connection.	Crystal CPF ⁺ Female	specified.				
connection.		1/4" medium pressure tube system compatible with HiP LM4 and LF4 Series, Autoclave Engr SF250CX Male and Female Series.				
STORAGE TEMPER	ATURE	• 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 mont				

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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SENSORS, TEST & CALIBRATION

RANGE & RESOLUTION TABLE

			Display	Resolutic	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	15000	1.3 x	1					0.01	0.01		1	0.001

ORDERING INFORMATION

UKUE		URMATIC									
P/N	Model	Dual Display	Accuracy	Adapter Type	Connection Location	Data logging	Pump System*	Carrying Case~	AMETEK offers a variety of solutions for pressure genera-		
	XP2I								tion and measurement. Our line of products for pressure		
	Standard:	No(omit)	0.1% of reading (omit)	NPT(omit)	Bottom (omit)	No(omit)	No Pump (omit)		generation includes everything from small pneumatic		
	Optional:	YesDD	0.02% of FS -S2	G 1/4 B BSP	BackRP	YesDL	System AAXX	Aluminum (omit)	hand pumps to a precision, hydraulic pressure comparator		
			0.05% of FS -S5	M20x1.5M20	Panel MountF4		System AAHX	Waterproof	capable of generating up to 15000 psi/1000 bar/100 MPa.		
SAMPLE I 300PSIXI	PART NUMB		300 psi standard gauge, v	with a 1/4" NPT pre	ssure fitting.	System BBXX System BBHX	∼ The Waterproof Case is	All of our pumps may be ordered as part of a Pump System, complete with an XP2i and delivered in a sturdy carrying			
5KPSIXP2I-S2-BSP-DL						System CCXX System CCHX System DDOX	an option for Systems A, B, and C only.	case with custom insert.			
10KPSIX	P2I-DD-GW>	K-W 1	0 000 psi Dual Display g	auge with a Systen	n G pump system		System DDWX	The Waterproof Case is the only option for Systems	* Refer to the following page for a more detailed description		
		a	ind a waterproof carryin	g case.	,		System EEOX	G and H.	of each pump system.		
Ordering	g a Pump Sy	vstem Onlv					System FFOV				
-			d connection fittings fo	or an XP2i pressure	e gauge may be or	dered	System FFWV				
separately from the gauge. Enter XP2I-NONE followed by the Pump System part number and the							System GGOX				
Carrying Case option code.							System GGWX				
SAMPLE I	PART NUMB	ER				System HHOX					
XP2I-N0	NE-BHX-W		System B pump syste	em with a waterpro	of carrying case.						



PUMP SYSTEMS OVERVIEW

Pump									Case Options
System	Part Number	Pressure Range	Pneumatic	Hydraulic	Hand Pump	Bench Top	Included Pump	Aluminum	Waterproof (Pelican Case)
System A	AXX	0 to 30psi /2 bar			-		T-960-CPF	•	Dr)
System A	AHX	0 to 580 psi /40 bar			-		T-970-CPF	-	
	ВХХ	-25 inHg to 30 psi /-0.85 to 2 bar			-		T-965-CPF		■ or)
System B	внх	-27 inHg to 580 psi /-0.91 to 40 bar			-		T-975-CPF		
System C	СХХ	0 to 3000 psi /200 bar		■ (Oil)	-		T-620-CPF		■ Dr)
System C	СНХ	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)		-		-	
System E	EOX	0 to 10 000 psi /700 bar		■ (Oil)		•	P014-CPF	-	
Custom F	FOV	0 to 15 000 psi/1000 bar		■ (Oil)		-	T-1-CPF	-	
System F	FWV	0 to 15 000 psi/1000 bar		(Water)		-		-	
Sustan C	GOX	0 to 15 000 psi/1000 bar		■ (Oil)		-	GaugeCalHP		•
System G	GWX	0 to 15 000 psi /1000 bar		(Water)		-			-
System	НОХ	-27 inHg to 580 psi /-0.91 to 40 bar					T-975-CPF — (and) —		•
System H		0 to 5000 psi /350 bar		■ (Oil)	-		T-620H-CPF		-

Contact: Industrial Process Measurement, Inc. 3910 Park Ave, Unit #7 Edison, NJ 08820 USA (732) 632-6400 support@instrumentation2000.com/ https://www.instrumentation2000.com/

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