Crystal \

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 specification.

PSV mode is intended for Pressure Safety Valve testing, and requires software to enable. (ConfigXP is a free download

LCD readable in sunlight with bright backlight.

Includes all effects of linearity, hysteresis, repeatability,

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

All models indicate vacuum, but vacuum specification applies

temperature, and stability for one year.

*Full Scale is 100% of the range **Full Scale = -100.0 kPa

DISPLAY

Screen: 5.5 digits

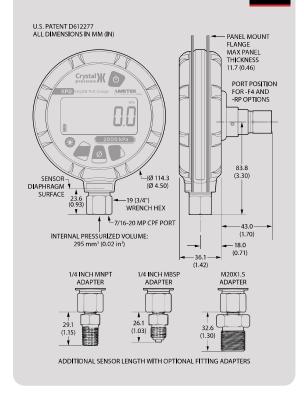
Single Line Display: 16.9 mm (0.67") high

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)

XP2i Pressure Gauge kPa



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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			
Energizer EN91	20 +- 50% 6	F. :- UCT2 C-		
Duracell MN1500	-20 to 50° C	Ex ia IIC T3 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		

 $3 \times AA$: 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.

**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 **kPa**



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 100KKPA is

specified.

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.

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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

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	CPF Adapt	er Fitting is not includ

■ORDERING INFORMATION*

P/N Model Display Accuracy Display Adapter Type Connection Location Data logging XP2I	Pump System* Carrying Case* AMETEK offers a variety of solutions for pressure generation and measurement. Our line of products for pressure generation includes everything from small pneumatic System AAXX Aluminum(omit) System AAHX WaterproofW System BBXX
SAMPLE PART NUMBERS 200KPAXP2I	System BBHX System CCXX System CCHX System DDOX System DDOX System DDOX System DDOX System EEOX All of our pumps may be ordered as part of a Pump System, complete with an XP2i and delivered in a sturdy carrying case with custom insert. * Refer to the following page for a more detailed description of each pump system.
▶ 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. SAMPLE PART NUMBER XP2I-NONE-BHX-W	System FFOV System GGOX System GGWX System HHOX

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*KPA versions available in USA direct from factory only.

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PUMP SYSTEMS OVERVIEW

Pump							Case Options		
System	Part Number	Pressure Range	Pneumatic	Hydraulic	Hand Pump	Bench Top Inclu	ıded Pump	Aluminum	Waterproof (Pelican Case)
System A	AXX	0 to 30psi / 2 bar	-		-	<u>A</u>	T-960-CPF	• (c	-
	AHX	0 to 580 psi /40 bar	•		•	915	T-970-CPF	•	•
System B	BXX	-25 inHg to 30 psi /-0.85 to 2 bar	•		-	<u>A</u>	T-965-CPF	-	■ or)
	внх	-27 inHg to 580 psi /-0.91 to 40 bar	-		-	V.	T-975-CPF	•	•
System C	CXX	0 to 3000 psi/200 bar		■ (Oil)	-	Ť	T-620-CPF	- (c	■
System C	СНХ	0 to 5000 psi /350 bar		■ (Oil)	-	CO	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)		• 3	1	•	
System E	EOX	0 to 10 000 psi /700 bar		■ (Oil)		. 0	P014-CPF		
System F	FOV	0 to 15 000 psi/1000 bar		■ (Oi l)		<u>H</u>	T-1-CPF	-	
System F	FWV	0 to 15 000 psi/1000 bar		■ (Water)		· 1		•	
System G	GOX	0 to 15 000 psi/1000 bar		■ (Oil)			GaugeCalHP		•
system G	GWX	0 to 15 000 psi / 1000 bar		■ (Water)					•
System H	нох	-27 inHg to 580 psi /-0.91 to 40 bar	•		-	TA	T-975-CPF —— (and) ———		•
		0 to 5000 psi /350 bar		■ (Oil)	•	9	T-620H-CPF		•

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