ACCURACY

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*)

*Full Scale = -14.5 psig

▶ Vacuum to Full Scale

-S2 Option: ± (0.02% of Full Scale) 15 to 25° C

 \pm (0.05% of Full Scale) -10 to 15° C,

25 to 50° C, typical

-S5 Option: ± (0.05% of Full Scale) -10 to 50° C

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)

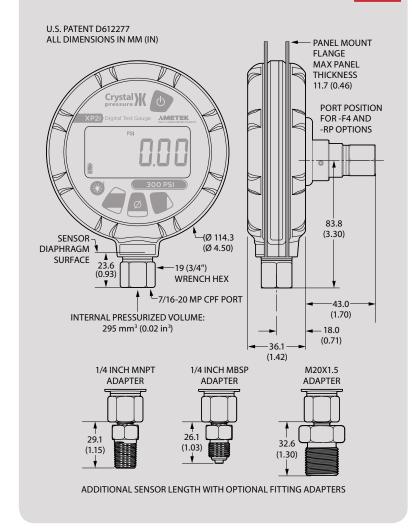
LCD readable in sunlight with bright backlight.

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

 $from \ \underline{ametek calibration.com.})$

Visit TRANSCAT*.com > sales@transcat.com | 800.828.1470

XP2i Pressure Gauge **psi**





POWER

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

ATFX/IFCFx:

	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 to 50° C	Ex ia IIC T3 Ga		
	Duracell MN1500	-20 to 50 C			

CSA:

4	Approved Battery Type	Ta=	Marking	
R	Rayovac Max Plus 815	-20 to 45° C	Marking Class I, Division 1, A, B, C, D T4 Class I, Division 1, A, B, C, D T3C	
E	nergizer E91			
Е	nergizer EN91	-20 to 50° C	Class I, Division 1, A, B, C, D T3C	
R	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 Free Labview® drivers and programming instructions are available for download from website.

For hazardous location product warnings, refer to the

operation manual.

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**





Ex ia IIC T4/T3 Ga IECEx FTZU 12.0009X



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.



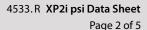
XP2i complies with the Electromagnetic Compatibility and the Pressure Equipment Directives.



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.







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

specified.

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

and Female Series.

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

STORAGE TEMPERATURE

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
- CD Manual
- ISO 17025 Accredited Calibration Certificate, NIST Traceable
- 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	on									
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

CPF Adapter Fitting is not included.

ORDERING INFORMATION

P/N	Model	Dual Display	Accuracy	Adapter Type	Connection Location	Data logging	
	XP2I						
	Standard:	No (omit)	0.1% of reading (omit)	NPT(omit)	Bottom(omit)	No(omit)	
	Optional:	Yes -DD	0.02% of FS S2	G 1/4 B BSP	BackRP	Yes DL	
			0.05% of FS -S5	M20x1.5 M20	Panel MountF4		

SAMPLE PART NUMBERS

300PSIXP2I......300 psi standard gauge, with a 1/4" NPT pressure fitting.

5KPSIXP2I-S2-BSP-DL 5000 psi gauge with 0.02% of FS accuracy, a 1/4" BSP pressure fitting,

and Data logging.

 $10 KPSIXP2I-DD-GWX-W. \dots 10\,000\,psi\,Dual\,Display\,gauge\,with\,a\,System\,G\,pump\,system$

and a waterproof carrying case.

► 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 B pump system with a waterproof carrying case.

Pump System*	Carrying Case~
No Pump (omit)	
System AAXX	Aluminum(omit
System AAHX	WaterproofV
System BBXX	
System BBHX	
System CCXX	The Waterproof Case is
System CCHX	an option for Systems A, and C only.
System DDOX	The Waterproof Case is
System DDWX	the only option for Syste G and H.
System EEOX	G dilu fi.
System F FOV	
System FFWV	
System GGOX	
System GGWX	

System H ... -HOX

AMETEK offers a variety of solutions for pressure generation and measurement. Our line of products for pressure generation includes everything from small pneumatic hand pumps to a precision, hydraulic pressure comparator capable of generating up to 15 000 psi / 1000 bar / 100 MPa.

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.

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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	•	■ or)
System A	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	•	■ or)
System b	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	•	■ or)
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	•	
System F	FOV	0 to 15 000 psi / 1000 bar		■ (Oil)		-	T-1-CPF	•	
System F	FWV	0 to 15 000 psi/1000 bar		■ (Water)		-		•	
System G	GOX	0 to 15 000 psi/1000 bar		■ (Oil)		•	GaugeCalHP		•
Jystein d	GWX	0 to 15 000 psi /1000 bar		■ (Water)		•			•
System H	НОХ	-27 inHg to 580 psi /-0.91 to 40 bar	•		•		T-975-CPF — (and) ———		•
Jysteili H	ш п	0 to 5000 psi /350 bar		■ (Oil)	•		T-620H-CPF		•