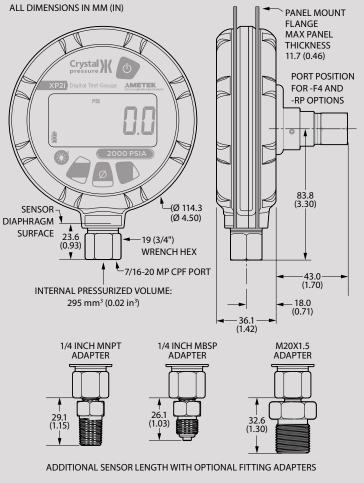
Crystal

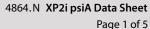
ACCURACY

16 psiA Range						
-S5 Option:	± (0.05% of Full Scale) -10 to 50° C	Includes all effects of linearity, hysteresis, repeatability, temperature, and stability for one year.				
		Easily switch between gauge (sealed gauge) and absolute pressure measurement.				
		Only available with -S5 accuracy option.				
		Calibrated in Vertical Orientation. Orientation Effect = ± 0.004 psi.				
100 psiA Range						
0 to 20% of Range:	±(0.02% of Full Scale)	Includes all effects of linearity, hysteresis, repeatability,				
20% to 110% of Range:	±(0.1% of Reading)	temperature, and stability for one year.				
-S2 Option:	± (0.02% of Full Scale) 15 to 25° C ± (0.05% of Full Scale) -10 to 15° C, 25 to 50° C, typical	Easily switch between gauge (sealed gauge) and absolute pressure measurement.				
-S5 Option:	± (0.05% of Full Scale) -10 to 50° C					
500, 1000, 2000, 3000, 5	000, 10 000, 15 000 psiA Ranges					
5 psiA to 20% of Range: ±(0.02% of Full Scale)	Includes all effects of linearity, hysteresis, repeatability,				
20% to 110% of Range:	±(0.1% of Reading)	temperature, and stability for one year.				
-S2 Option:	± (0.02% of Full Scale) 15 to 25° C ± (0.05% of Full Scale) -10 to 15° C,	All models indicate pressure from 0 psiA to Full Scale, but are only specified from 15 psiA to Full Scale.				
	25 to 50° C, typical	Easily switch between gauge (sealed gauge) and absolute pressure measurement.				
-S5 Option:	± (0.05% of Full Scale) -10 to 50° C					
OPERATING TEMP	ERATURE					
Temperature Range:	-10 to 50° C (14 to 122° F)	Non-condensing. No change in accuracy over operating temperature range.				
DISPLAY						
Screen:	5.5 digits	LCD readable in sunlight with bright backlight.				
Single Line Display:	16.9 mm (0.67") high	PSV mode is intended for Pressure Safety Valve testing, and				
Dual Line Display:	Main Display: 13.9 mm (0.55″) Secondary Display: 5.3 mm (0.21″)	requires software to enable. (ConfigXP is a free download from ametekcalibration.com.)				

XP2i Pressure Gauge psiA

U.S. PATENT D612277







Display Rate: 4 readings/second (standard) 8 readings/second (PSV mode)

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	-20 to 50° C	Ex ia IIC T3 Ga	
	Duracell MN1500	-20 to 30 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 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: 32000 data points Storage Type: Non-volatile flash memory Minimum Interval: 1 second Maximum Interval: 18 hours Min. Event Duration: 250 mS***

Free Labview[®] *drivers and programming instructions are* available for download from website.

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. Compatible with 32 & 64 bit Windows 7, Vista, and XP (32 bit only). Produces csv files, or uses Excel template files (samples included) to automatically format and graph data.

*** Logging Type - Average with Peaks.

XP2i Pressure Gauge psiA

CERTIFICATIONS



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

IEC	lE
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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.



187869

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.



Crystal)

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 15KPSIB 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 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 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 psiA

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

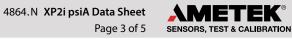
- Magnetic Hanging Strap P/N 5203
- AC Adapter Kit P/N 2984
- USB B to RS232 DB9M Cable P/N 3313
- Waterproof Carrying Case P/N 2888

COMPLEMENTARY PRODUCTS

Crystal Engineering offers a wide range of products that work with the XP2i:

- 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.





RANGE & RESOLUTION TABLE

			Display Re	solution								
P/N	Range (psiA)	Over- pressure	psi	in H ₂ O	in Hg	mm H₂O	mm Hg	kg/cm ²	bar	mbar	kPa	MPa
16PSIB	16	6.5 x	0.001	0.01	0.001	0.1	0.01	0.0001	0.0001	0.1	0.01	0.00001
100PSIB	100	2.0 x	0.01	0.1	0.01	1	0.1	0.0001	0.0001	0.1	0.01	0.00001
500PSIB	500	2.0 x	0.01	1	0.1		1	0.001	0.001	1	0.1	0.0001
1KPSIB	1000	2.0 x	0.1		0.1			0.001	0.001		0.1	0.0001
2KPSIB	2000	2.0 x	0.1		0.1			0.01	0.01		1	0.001
3KPSIB	3000	1.5 x	0.1		0.1			0.01	0.01		1	0.001
5KPSIB	5000	1.5 x	0.1		1			0.01	0.01		1	0.001
10KPSIB	10000	1.5 x	1					0.01	0.01		1	0.001
15KPSIB	15000	1.3 x	1					0.01	0.01		1	0.001

-S5 is the only accuracy level available.

CPF Adapter Fitting is not included.

ORDERING INFORMATION

Model	Dual Display	Accuracy	Adapter Type	Connection Location	Data logging	Pump System*	Carrying Case~
XP2I							
Standard:	No(omit)	0.1% of reading (omit)	NPT(omit)	Bottom (omit)	No(omit)	No Pump (omit)	
Optional:	YesDD	0.02% of FS S2	G 1/4 BBSP	BackRP	Yes -DL	System AAXX	Aluminum (omit
		0.05% of FS -S5	M20x1.5 M20	Panel MountF4		System A AHX	WaterproofV
	.DC					System BBXX	
	:KS					System BBHX	← The Waterproof Case is
2I	2	000 psi Absolute gauge,	with a 1/4" NPT pr	essure fitting.		System CCXX	
100PSIBXP2I-BSP-DL							an option for Systems A, B, and C only.
				-		System DDOX	The Waterproof Case is
P2I-DD-GW				n a System G pump s	system	System DDWX	the only option for Syste G and H.
	а	nd a waterproof carrying	g case.			System E EOX	G dilu n.
						System FFOV	
a Pump Sv	System FFWV						
	System GGOX						
rom the gau	System GGWX						
se option co							
F	XP2I Standard: Optional: ART NUMBE 2I P2I-BSP-DL P2I-DD-GW a Pump Sy ystem, carry rom the gau	Model Display XP2I	Model Display Accuracy XP2I	Model Display Accuracy Type XP2I	Model Display Accuracy Type Location XP2I	Model Display Accuracy Type Location Data logging XP2I	Model Display Accuracy Type Location Data logging Pump System* XP2I

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 15000 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.

SAMPLE PART NUMBER

XP2I-NONE-BHX-W System B pump system with a waterproof carrying case.

4864.N XP2i psiA Data Sheet Page 4 of 5





PUMP SYSTEMS OVERVIEW

Pump									Case Options
System	Part Number	Pressure Range	Pneumatic	Hydraulic	Hand Pump	Bench Top	Included Pump	Aluminum	Waterproof (Pelican Case)
Sustan A	AXX	0 to 30psi /2 bar	-		-		T-960-CPF		■ or)
System A	AHX	0 to 580 psi /40 bar	-				T-970-CPF		
C . 1	BXX	-25 inHg to 30 psi /-0.85 to 2 bar	-				T-965-CPF	– (0	■ 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	– (0	■ or)
<u>system c</u>	СНХ	0 to 5000 psi /350 bar		■ (Oil)	-		Т-620Н-СРГ	•	-
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	1	
System F	FOV	0 to 15 000 psi /1000 bar		■ (Oil)		-	T-1-CPF		
System P	FWV	0 to 15 000 psi /1000 bar		■ (Water)		•		•	
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	•		•		T-975-CPF — (and) ———		-
System H		0 to 5000 psi /350 bar		■ (Oil)			T-620H-CPF		-

