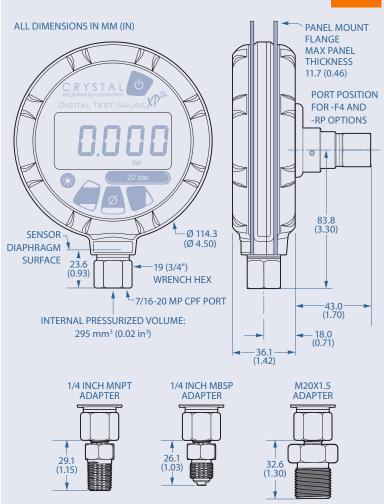
CRYSTAL

XP2i Pressure Gauge bar

			ALL DIMENSIONS
ACCURACY			
0 to 20% of range:	±(0.02% of Full Scale)	Includes all effects of linearity, hysteresis, repeatability,	
20% to 100% of range:	±(0.1% of Reading)	temperature, and stability for one year.	
Vacuum:	±(0.25% of Full Scale*)	All models indicate vacuum, but vacuum specification applies to 1 bar, 2 bar, 7 bar and 20 bar models only.	
	* Full Scale = -1.0 bar	Not recommended for continuous use at high vacuum. Refer to XP2i-DP data sheet for gauges that are intended for continuous high vacuum use.	
OPERATING TEMP	ERATURE		
Temperature range:	-10°C to 50°C (14°F to 122°F)	Non-condensing. No change in accuracy over operating temperature range. Gauge must be zeroed to achieve rated specification.	SENSOR DIAPHRAGM
DISPLAY			SURFACE 23.6
Screen:	5 digits, 16.5 mm (0.65") high	LCD readable in sunlight with bright backlight.	<u> </u>
Display Rate:	3 readings/second (standard) 7 readings/second (PSV mode)	<i>PSV mode is intended for Pressure Safety Valve testing, and requires software to enable.</i> (ConfigXP is a free download from <u>XP2i.com.</u>)	INTERNAL 29
POWER			
3 x AA:	1500 hours, typical	Uses 3 alkaline AA (LR6) batteries. Use of backlight and/or RS232 reduces operating time.	1/4 I A ح
DATA/COMMUNIC	ATION	Optional AC power supply available.	
Digital Interface:	RS232, DB-9F	Free Labview [®] drivers and programming instructions are available for download from website.	29.1 (1.15)
DATALOGGING		Do not use RS232 in hazardous locations.	
Capacity:	Approx. 6000 data points	Firmware Update may be purchased at time of order, or an	ADDITI
Storage type:	Non-volatile flash memory	Upgrade Package may be purchased afterward.	
Minumum Interval:	1 second	Software available for download from our website. Compatible with 32 & 64 bit Windows 7 and Vista, and XP (32 bit only).	
Maximum Interval:	18 hours	Produces csv files, or uses Excel template files (samples included) to automatically format and graph data.	
Min. event duration:	333 mS (min/max enabled)	to uncontainenty format and graph data.	



ADDITIONAL SENSOR LENGTH WITH OPTIONAL FITTING ADAPTERS

23.6 (0.93)

XP2i bar Data Sheet

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CRYSTAL

ENCLOSURE

Weight:	562 g (19.8 oz)
Rating:	IP67
Housing:	Diecast aluminum
Keypad and labels:	UV Resistant Polyester

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: Dow Corning® 200	¼″ male NPT adapter included unless BSP or M20 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 TEMPERATURE	Can be cleaned and certified for oxygen service.
Temperature range: -40°C to 75°C (-40°F to 167°F)	Batteries should be removed if stored for more than one month.

Weight includes batteries.

Skydrol[®] compatible.

Submersible to 1 m for 30 minutes [IEC 60529].

polycarbonate lens under polyester window.

Nickel plating over low copper, marine grade aluminum.

LCD protected from impact damage by 1.5 mm (0.06") thick

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 testing. 7 readings per second. Records 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 bar

CERTIFICATIONS



II 1G Ex ia IIC T4 **KEMA 04 ATEX 1053 X** This product conforms to: EN60079-0: 2006 EN60079-11: 2007 EN60079-26: 2007



This product conforms to: IECEx CSA 05.0001X IEC 60079-0: 2004 IEC 60079-11: 2006



Class I, Division 1 Groups A, B, C, & D, Temperature Code T4 Intrinsically Safe and Non-incendive for Hazardous Locations.



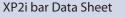
XP2i complies with the Electromagnetic Compatibility and the Pressure Equipment Directives. Refer to the EC Declaration of Conformity for specific details.



The instrument was tested against AS/NZS 3584, C-tick EMC/EMI requirements.



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.



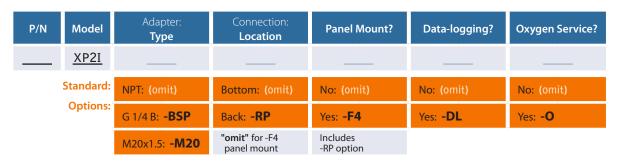
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CRYSTAL

RANGE & RESOLUTION TABLE

			Display R	Resolution	1						
P/N	Range (bar)	Over- Pressure	PSI	inch H ₂ O	inch Hg	mmHg	mm H ₂ O	kPa	kg/cm²	bar	mbar
1BAR	1	6.5 x	0.001	0.01	0.001	0.01	1	0.01	0.0001	0.0001	0.1
2BAR	2	3.0 x	0.001	0.01	0.001	0.1	1	0.01	0.0001	0.0001	0.1
7BAR	7	2.0 x	0.01	0.1	0.01	0.1	1	0.01	0.0001	0.0001	0.1
20BAR	20	2.0 x	0.01	0.1	0.01	1		0.1	0.001	0.001	1
30BAR	30	2.0 x	0.01	1	0.1	1		0.1	0.001	0.001	1
70BAR	70	2.0 x	0.1		0.1			0.1	0.001	0.001	
140BAR	140	2.0 x	0.1		0.1			1	0.01	0.01	
200BAR	200	1.5 x	0.1		0.1			1	0.01	0.01	
300BAR	300	1.5 x	0.1		1			1	0.01	0.01	
700BAR	700	1.5 x	1					1	0.01	0.01	

ORDERING INFORMATION*



SAMPLE PART NUMBERS

XP2i Pressure Gauge bar

ACCESSORIES



Protective Boot P/N 3696

Protect your XP2i even more from harsh environments with our form fitting chemical resistant thermoplastic boot (Skydrol fluid compatible).

AC Adapter Kit P/N 2984

For continous use applications without battery replacement concern. Input voltage: 100 - 240V, 50-60 Hz. Includes all available international plugs. (Not for use in hazardous locations.)

COMPLIMENTARY 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
- Fitting kits and adapters
- Pneumatic hand pumps
- Hydraulic hand pumps
- Portable pressure comparators
- Software, for the quickest way to calibrate pressure transmitters and gauges

Dow Corning is a registered trademark of Dow Corning Corporation.

* BAR versions available in USA direct from factory only.

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XP2i bar Data Sheet

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