

Digital Test Gauge

*New...*



*The XP2!*

**PRESSURE**  
*is Our*  
**BUSINESS™**

**CRYSTAL**  
engineering corporation

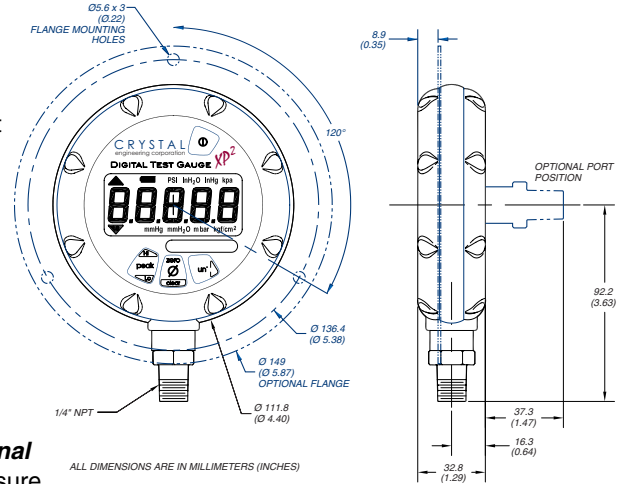
# XP<sup>2</sup> DIGITAL TEST GAUGE

Introducing the **XP<sup>2</sup>** – the most rugged pressure gauge we've ever built! That silver housing is actually formed, heavy gauge stainless steel, fully sealed to meet **NEMA4** and **IP66**. Electronics are cushioned by a shock absorbing mounting, and the large (16.5 mm, 0.65") high contrast display is reinforced against damage.

Pressure is displayed in up to 9 different pressure scales (PSI, kPa, etc.), on one of the easiest to read, full five digit, liquid crystal display, and there's a peak capture function. The **XP<sup>2</sup>** is so simple to use it doesn't need or use configuration menus. All **XP<sup>2</sup>**s have a built-in RS232 interface, and they're available in rear port and panel mounted versions. Although battery life is 1500 hours, **XP<sup>2</sup>**s can also be run from external power.

Our hallmark is performance, and the **XP<sup>2</sup>** is no exception. It's rated at **0.1% of reading**, from 20% to 100% of the rated range. 300 PSI ranges and lower are compound, and are rated to measure vacuum, too. That means **any XP<sup>2</sup> can replace several "of scale" rated test and/or digital gauges!** And they're fully temperature compensated – the specs are not derated for any temperature between -10°C (14°F) and +50°C (+122°F)!

With all these features, you may be surprised that the **XP<sup>2</sup> costs less than you might expect** - around the same as other digital gauges, making it **an exceptional value**. They're designed, built and serviced by a company that only makes pressure measuring equipment, and that's why we say: **Pressure is Our Business!**



Patent Pending

## Specifications

Specifications are for one year and include all effects of linearity, hysteresis, repeatability, and temperature.

### Accuracy

20% to 100% of Full Scale: ±(0.1% of Reading)  
0 to 20% of Full Scale: ±(0.02% of Full Scale)

Vacuum, for 2000kPa (300 PSI) and lower pressure gauges:

0 to -99.9 kPa(-14.5 PSIG): ±(0.25% of Full Scale),  
where F.S. = -99.9 kPa (-14.5 PSIG)

### Temperature

Operating & Compensated: -10°C to 50°C (14°F to 122°F)  
Storage: -20°C to 70°C (-4°F to 158°F)

### Connections

Pressure Connection: 1/4" male NPT

### Media Compatibility

Liquids and gases compatible with 316 stainless steel.

### Pressure Ranges, Display Scales & Resolution

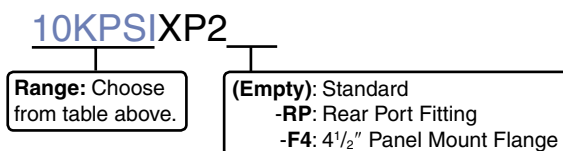
Range	max PSI	Range	max bar	PSI	kg/cm <sup>2</sup>	Hg	H <sub>2</sub> O	mmHg	mmH <sub>2</sub> O	kPa	Bar	mBar	Range*	max kPa
15PSI	100	1BAR	7	0.001	0.0001	0.001	0.01	0.01	1	0.01	0.0001	0.1	100KPA	700
30PSI	100	2BAR	7	0.001	0.0001	0.001	0.01	0.1	1	0.01	0.0001	0.1	200KPA	700
100PSI	200	7BAR	14	0.01	0.0001	0.01	0.1	0.1	1	0.01	0.0001	0.1	700KPA	1400
300PSI	600	20BAR	42	0.01	0.001	0.01	0.1	1	1	0.1	0.001	1	2KKPA	4200
500PSI	1000	30BAR	70	0.01	0.001	0.1	1	1	1	0.1	0.001	1	3KKPA	7000
1KPSI	2000	70BAR	140	0.1	0.001	0.1				0.1	0.001		7KKPA	14000
2KPSI	4500	140BAR	350	0.1	0.01	0.1				1	0.01		14KKPA	35000
3KPSI	4500	200BAR	350	0.1	0.01	0.1				1	0.01		20KKPA	35000
5KPSI	7500	300BAR	450	0.1	0.01	1				1	0.01		30KKPA	45000
10KPSI	15000	700BAR	1000	1	0.01					1	0.01		70KKPA	100000

\* kPa versions only have kPa, Bar and where possible, mBar. PSI & Bar include all available scales.

XP<sup>2</sup>s will display up to 110% of Range, but will not be damaged if exposed to pressure less than or equal to the "max" rating.

Standard factory setting is 1" H<sub>2</sub>O=0.036126PSI (density of water @ 4°C). Specify at time of order if you require a different density (e.g., for water @ 68°F, 1" H<sub>2</sub>O=0.036063 PSI).

### Ordering Information (example pressure range in blue):



Specifications subject to change without notice.  
© 2003, Crystal Engineering Corporation  
3022-USP Rev. A Printed in U.S.A. 9/03

**PRESSURE is Our BUSINESS™**



Crystal Engineering Corporation, 720 Aerovista Place, Suite B, San Luis Obispo, California 93401-8701 U.S.A.  
805-595-5477 ♦ fax 805-595-5466 ♦ www.crystalengineering.net ♦ sales@crystalengineering.net