

CRYSTAL

30 SERIES

Compact
Pressure **Calibrator**



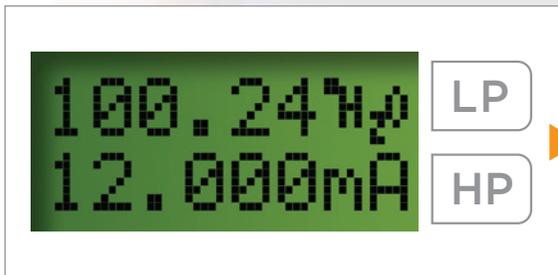
Widest Range, Smallest Size

With This Pocket Sized Crystal, You Can:



▶ **Measure** Low & High Pressures, and Vacuum

◀ **Calibrate** Flow Computers, Gauges & Transmitters



▶ **Compare** Pressure vs. Milliamps

◀ **Customize** Every Feature (See the back page)



Get Started in Under 2 Minutes

The 30 Series has a 16 page instruction manual, but...
You won't need to read any of it.

New users can usually operate the 30 Series
in under 2 minutes.

The intuitive interface is easy to learn and fast to use.

Sounds easy, right? **It is.**



Intrinsically Safe



II 2G Ex ia IIC T4 Gb
FTZU 06 ATEX 0010 X



II 2G Ex ia IIC T4 Gb
IECEx FTZU 10.0018 X

Always Accurate

Trust Every Reading



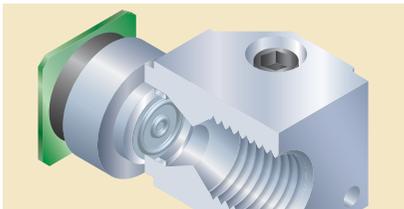
The Same Accuracy, Every Time

0.05% "of Reading" accuracy includes all effects of linearity, hysteresis, repeatability, temperature, and stability for one year.



Zero Temperature Effects

Pressure and milliamp readings are fully temperature compensated. With the 30 Series, **temperature** will never affect your accuracy.



These Sensors Never Deform

The perfectly elastic, crystalline sensors in the 30 Series return to their original shape, even after accidental over-pressure. Every reading is as accurate as your last.

Proven Accuracy Included

Few labs can offer calibration reports at multiple temperatures. Every 30 Series includes a (traceable) certificate with pressure and electrical test data at 5 temperatures from our ISO 17025 accredited lab.



Crystal products include a factory calibration report that proves it meets its specifications over the operating temperature range. The products described herein, are calibrated in Crystal's accredited Calibration Lab (A2LA, Certificate #2601.01) in an environmental chamber using fully automated equipment. Inclusion of the ILAC-MRA symbol does not imply certification or approval of the product itself, but rather refers to Crystal's accreditation as a calibration facility.

Did You Know? TEMPERATURE Affects You 2 Ways

You already know

temperature affects your pressure measurements. But did you know it changes your milliamp measurements, as well?

Your milliamp readings change with temperature – just like your pressure readings.

Only the 30 Series is Fully Temperature Compensated for both.

The 30 Series checks the temperature of its internal circuit board AND its pressure sensors, constantly correcting itself. That means your milliamp readings and pressure measurements are as accurate as you expect.

When Steve calibrates pressure transmitters



he always make his adjustments in the field. Each calibration takes about 20 minutes. All he carries with him is a small calibration kit and his 30 Series.

Because the 30 Series corrects for temperature, he knows his work is as accurate as a lab calibration.

Maybe better, since his adjustments happen under the same conditions the transmitter sees in service.

Only the 30 series

has been offering Full Temperature Compensation with "of Reading" accuracy since 1996. What can it do for you?

CRYSTAL

Dear 30 Series User,

Some ideas just make sense the first time you see them. That was my goal when I designed the 30 Series: **a device so simple, everyone could use it.**

I also wanted the 30 Series to be compact, reliable, and accurate.

It wasn't easy, but 14 years later, the 30 Series is still the smallest – the easiest – the best pressure calibrator on the market.

Over the years, our customers have used the 30 Series all across the world – in the heat and the cold, near corrosive liquids and flammable fluids. The 30 Series goes everywhere.

Our return rate is exceptionally low. Often, we receive units for repair that still work, despite heavy damage. One unit fell off a 100 ft tower, for example. A utility truck ran over another. Even in these extreme cases, we found the calibrators were still in spec.

The 30 Series is one of the most resilient units you have ever handled, and our accuracy is an example to the industry.

I see other manufacturers burying their real accuracy terms in complicated tables, or hiding their limitations in layers of fine print. We publish our accuracy specifications openly, everywhere we can, to make your job easier and because we are proud of what the 30 Series can do.

Try one and see for yourself, if everything I have said is true. You have my personal promise, you will be completely satisfied.

With Pride in our Products,



Tom Halaczkiwicz
President
Crystal Engineering

PRESSURE in Our BUSINESS™

CONFIGM30

Choose Your Functions

Use ConfigM30 — Crystal's free PC software — to choose exactly the settings you want for your 30 Series. Store multiple configurations on your computer, or set all your 30 Series to work the same way.

What you can do:

- Disable pressure units you never use.
- Create custom pressure units (e.g. feet of seawater)
- Lock your changes with a password
- Remove features to prevent operator error



To modify the settings, simply connect to your PC quickly with a standard micro-USB cable.

For detailed specifications go to crystallengineering.net/30series

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