

Pressure is our Business





Count on gauges and calibrators that perform...

Wherever you work







Our Products



- ▶ Replaces a deadweight tester *and* a chart recorder
- ► Gauge, absolute, and wet/wet differential pressure
- ► Temperature, current, voltage, & switch
- ► Comparative, real-time graphing
- ► Records 1 million data points at up to 10 readings per second



- High, low, & vacuum pressure sensors and milliamp indicator
- Easy to use
- ► Field proven worldwide since 1996
- ▶ Designed to calibrate transmitters
- ► Widest range, smallest size



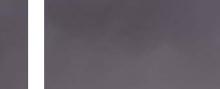
- World's most popular test gauge
- ▶ Ultra-rugged
- ▶ One XP2i replaces 5 or more test gauges
- ▶ Records 32 000 data points with DataLoggerXP option
- ► Marine-grade enclosure resists corrosion
- ► Continuous recording for 1 year in Ultra-Low Power mode













- ► Two year calibration interval
- Easy to read at any angle, day or night
- ► More durable than any mechanical gauge
- ► One M1 replaces 3 mechanical gauges
- ▶ 2-year battery life on 2 AA alkaline batteries
- ► Full-scale bar graph indicator



- ▶ Purpose-designed for testing & calibration
- Self-venting weep hole assures a safe disconnection from a pressurized system
- ➤ 2 seals: Use fingers for an o-ring seal or use a wrench for a metal to metal cone seal (good to -40°C)
- Laser marked: Thread type, size, and MAWP
- Directly compatible with HiP, Autoclave, and others



- ► Generate pressure precisely
 - From vacuum to 15 000 PSI/1000 bar/100 MPa
 - Hand-held and bench-top options available
- ▶ 10-point up & down calibration in under 2 minutes
 - With CrystalCalXP calibration system and FastCalXP software
- ► Complete field kits available
 - Including carrying case with room for your choice of fittings, pumps, and gauges or calibrators
- ▶ All you need for field calibration & testing
 - CPF fittings & hose
 - Weather-proof carrying case doubles as portable bench



Applications



Nuclear & Conventional Power Generation

- ▶ Safety & Compliance Documentation Downloadable recorded data
- ► **Testing in Restricted Areas** Simple, fast, customizable operation
- ▶ Steam Generator Performance Testing Fast, safe, and easy!



Municipal Water & Waste Treatment

- ► Filter Testing Differential pressure recording
- ▶ Sensor and Gauge Validation Highly accurate "of Reading" performance
- ▶ **Process Testing** Fast read rates





Intrinsically Safe



Exploration & Production

- ▶ Wellhead Testing Unmatched accuracy up to 15 000 psi / 1000 bar
- ▶ **Tubing & Casing Pressure Graphing •** Simultaneous recordings from 2 sensors
- ► Chart Recorder Replacement Long-term, continuous recording



Transmission & Distribution

- ► **Hydro-static Testing** Usable results while recording
- ▶ **Transmitter Testing** Low differentials at high static pressure
- ▶ **Custody Transfer** Highly accurate measurements to track your inventory
- ▶ **Pressure Switch Testing** Fast, easy records of pressure switch testing



Petrochemical Manufacturing & Refining

- ► Intrinsically Safe ATEX & IECEX
- ▶ **Light Enough to Climb Towers** Rugged enough to survive falls
- ▶ Pressure Relief Valve Testing Fast read rates with a permanent record of each test





Dear Customer.

In 1982, we began with a simple idea: "Pressure is our business." Since then, our unswerving goal has been to help you succeed. Day after day, we work harder, so you can work better. Year after year, we strive to surpass your expectations.

Take a moment, and look closely. You will find a Crystal pressure measurement instrument is the best tool to help you get the job done.

Value

In fact, you may find a Crystal gauge, recorder or calibrator is the most valuable tool you have ever owned—and for good reason.

One Crystal product often does the work of three to five other devices—replacing your data logger, your chart recorder, multiple test gauges, even a deadweight tester. With lower ongoing costs for calibration and repair, your purchase starts paying you back immediately. And now, Crystal instruments last even longer in harsh environments, with new materials and an IP-67 rating on most field units.

Above all, we believe in making things simple. Everything we make is easy to use and task-configurable, so you work and train faster. You might not even need a manual.

Reducing uncertainty

We also believe in being clear: about our capabilities, about our accuracy, about what you can expect from us.

We use Active Digital Temperature Compensation to ensure you have lab accuracy in nearly any outdoor climate—even under extreme temperature. We define our accuracy clearly, so you know where you stand without working complex calculations. And rather than inflating our performance—by shortening the calibration interval, for example—our specifications always apply for at least one year.

Increased Safety

Crystal Products are setting a new standard for safety. We design and test all our products, not only for everyday use, but for the moments when things go wrong.

Our Crystal Pressure Fittings and Hoses are certified by the Technical Standards and Safety Authority, and an ASME Inspector witnessed our proof-pressure testing. Intrinsically Safe ratings are factory-standard on all our calibrators. Our products withstand overpressure, warn users of potential accidents, and undergo regular destructive testing, because your safety is important to us.

Ask your colleagues. Someone near you uses our products. Compare our products to any other and see the difference. Our mission is to make sure you get the job done and the results speak for themselves. Crystal gauges work better in the field and in the lab—wherever you need them.

Sincerely,

The Crystal Team

For detailed specifications go to crystalengineering.net



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