

XP3i

It's **still** not like **other**
pressure gauges



The Best is Now Better!

The New XP3i takes everything you love from the XP2i, like:



Easy to Use:

Just pick up an XP3i and you'll be an expert in minutes. It's as easy as that.

[See more.](#)



Field Proven - Durable and Rugged:

Weather tested and drop protected, we designed the XP3i to withstand the toughest conditions where you rely on trusted pressure readings.

[See more.](#)



Reliable Accuracy Wherever:

The XP3i is used in some of the most extreme locations in the world. We designed its temperature compensation to support you wherever you work.

[See more.](#)

...and adds game-changing features.



Bluetooth Communication:

No need to connect to the XP3i by a cable – quickly connect wirelessly using our new CrystalConnect mobile app. Ideal to avoid hazardous locations, inclement weather, and hard-to-reach locations.



Twice as Accurate as the XP2i:

Now with an accuracy of 0.05% of reading, use the XP3i in more places, and replace even more standard gauges. And, this increased accuracy is over a larger temperature compensated range of -20 to 50°C.



Cloud Solution:

Our new cloud software CrystalControlWeb (crystalcontrolweb.com) takes the logging features from DataLoggerXP and adds all-new sharing, analyzing, and managing options into a single place. Upload from your XP3i and invite colleagues to join you in viewing, editing, and storing your data.

A New Way to Measure & Record

XP3i Pressure Gauge

Collect Readings

All measurement tasks start with an improvement to the world's most popular pressure gauge. If your job requires you to calibrate gauges, carry a single XP3i in your toolbox to replace multiple "of scale" rated gauges.

[See our explanation of "of reading" vs. "of scale"](#)

If your requirements include a **record of a pressure test**, add the optional DataLoggerXP upgrade and turn your XP3i into a stand-alone, **handheld pressure recorder**. The XP3i reads and collects the pressure readings, and then stores them until you're ready to download. [See more.](#)



CrystalControlWeb

Cloud Software

CrystalControlWeb (CCW) is our new cloud software to manage, customize, save, and download stored data logging runs from the XP3i. CCW is accessed through any web browser, making your XP3i data available to your colleagues worldwide within minutes of collecting it.



CCW includes free features to customize your XP3i, like adding and removing units, and features to maximize your reporting options. Our cloud service stores all reporting data for easy retrieval, or you can export it to a spreadsheet or PDF file. [See more.](#)



CrystalConnect

Mobile Application

Our new mobile application lets you communicate with your XP3i via Bluetooth. This wireless connection eliminates the need for cables, software drivers, and a PC. Your phone is all you need to view live data and download stored data from the XP3i.

Connecting to the XP3i wirelessly lets you leave the gauge connected in a hazardous area and download the data without removing it. [See more.](#)



Easy to Use

No Menus. No Manual? No Problem!



Four buttons — that's all you need to operate the XP3i.

Understand every function two minutes after opening the box.



FITTINGS FOR LiFE™

Removable CPF♦ Adapter

Shifts everyday wear to a replaceable NPT, M20, or BSP adapter (included).

For more information about CPF visit ametekcalibration.com ◀

♦ U.S. Patent No. 8,794,677

You Can Read This Display Anywhere

- ▶ Large Display: Read From a Distance
- ▶ High Contrast Liquid Crystal: Read in Bright Sunlight
- ▶ Bright Backlight: Read in the Dark



Stronger. Tougher. Trusted.

Dropped, Submerged, Over-Pressurized and it **still** reads accurately!



Submersible:

Sealed against dust and water. IP67 rated for 30 minutes of full submersion under 1 meter (3 ft.) of water.

Shock Resistant:

Survives falls with no effect on accuracy.

MIL-STD-810H: Withstands a 5 foot drop (without protective boot) and a 10 foot drop (with boot) to a steel plate in 6 orientations.



Marine-Grade Construction:

The patented XP3i's, nickel-plated housing resists corrosion with the same low-copper, aluminum alloy found on saltwater outboard motors.



Would you know if your gauge was broken?

Some sensors and bourdon gauges read incorrectly after deforming under pressure. You would never know your gauge is broken until you compare it to a reference.

The XP3i's silicon sensors shatter at very high pressure, *but never deform*. They always return to their original shape *and accuracy*, even after accidental overpressure. The gauge's self-diagnostics will indicate a damaged sensor, preventing operation and protecting you from erroneous readings.

Trust Every Reading

Used Everywhere



Crystal
pressure



Consistent Performance in the Coldest Places on Earth **Northern Canada**

In northern Canada, our customers perform hydrostatic testing during winter, when pipelines become accessible by snowcat. They count on the XP3i to be accurate and ready for work when they get there.



XP3i Proves Itself **Middle East**

Oil workers on Middle East pipelines operate every day in the blowing sand, under the hot desert sun. They need a reliable, Intrinsically Safe pressure gauge that works as hard as they do. From pressure testing and equipment calibration to long-term recording, they choose the XP3i.



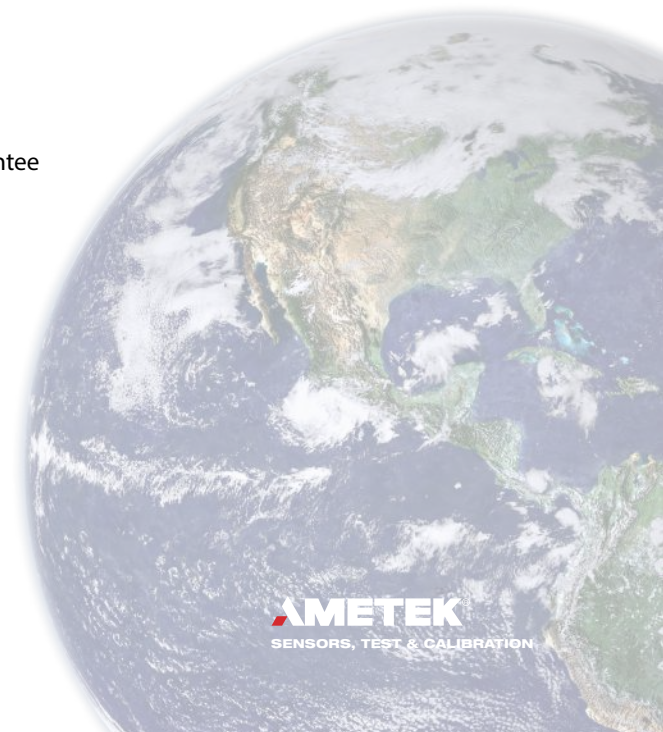
The Same Accuracy at Any Temperature **Temperature Compensated**

Active Digital Temperature Compensation corrects the sensor for changes in temperature. We guarantee 0.05% of reading accuracy from -20 to 50° C, an improvement of 10° from the XP2i.



Free Calibration Certificate Included **With All Data!**

Every XP3i comes with a NIST traceable, ISO 17025 calibration report—from our A2LA (certificate 2601.01) accredited and internationally recognized by ILAC calibration lab—with test data at 5 temperatures, proving our gauges meet specifications throughout their full temperature range. Other manufacturers *charge extra* for a report with data only at room temperature.



AMETEK
SENSORS, TEST & CALIBRATION

Intrinsically Safe Recorder

Now Record 200 Million Data Points

When you purchase DataLoggerXP, you transform your XP3i into a portable pressure data logger. Leave your XP3i on location as it records and timestamps readings for months at a time. Start and stop recordings with a single button and store multiple data sets.

DataLoggerXP is Ideal For:

- Pipeline leak testing
- Wellhead monitoring
- Chart recorder replacement
- Diagnostics—capture intermittent or transient events
...and many more

Extended battery life for long-term recordings

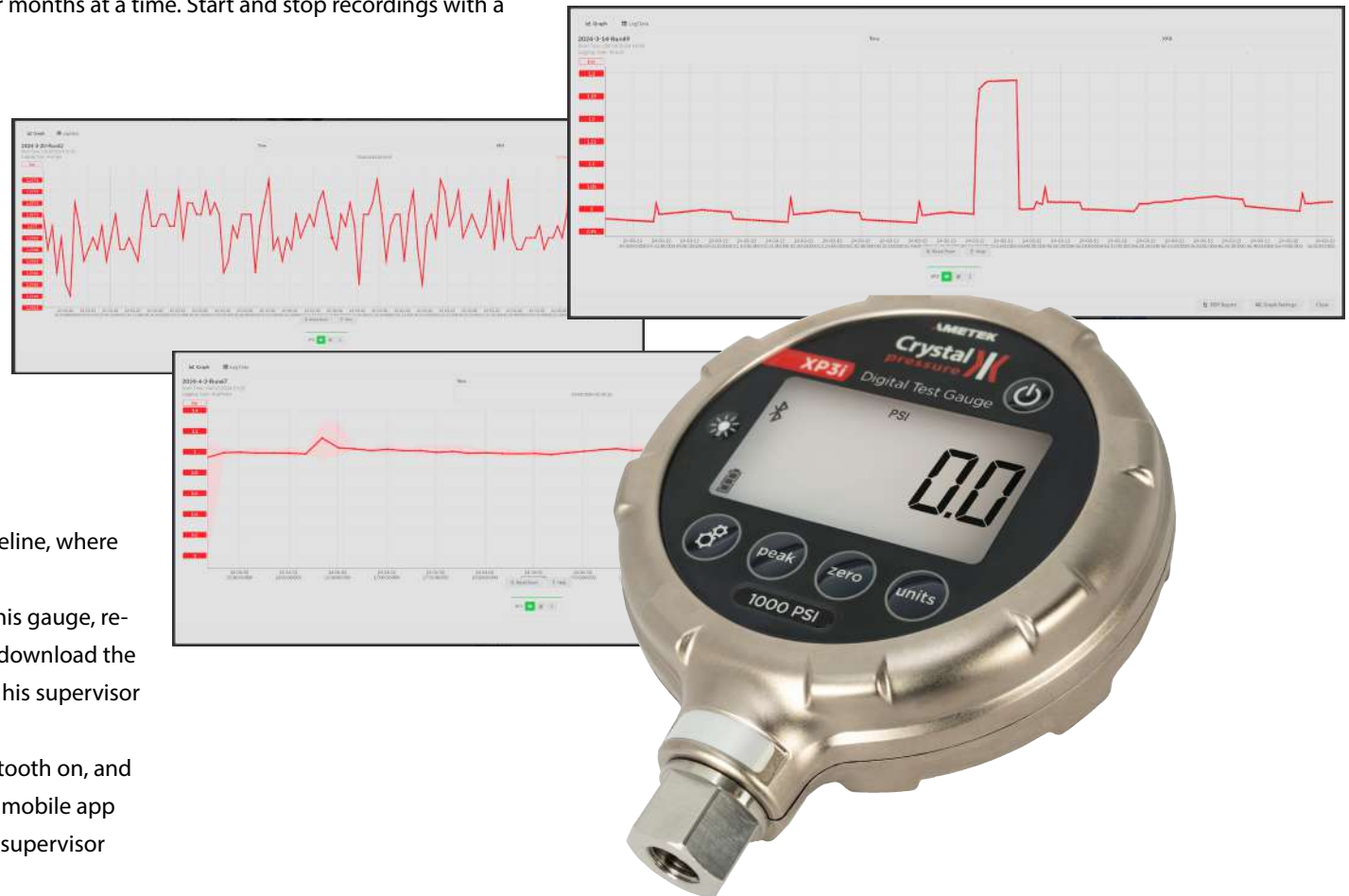
- Record up to **1 YEAR** with Ultra-Low Power mode

Cloud Solution – CrystalControlWeb

Experience the Difference: A technician drives to his pipeline, where his gauge is collecting data.

Before the XP3i: He walks through the rain, disconnects his gauge, returns to his truck, connects the gauge to his computer to download the data, returns to reinstall the gauge, and finally emails it to his supervisor once he's back in the office.

Now: He makes one trip through the rain to turn the Bluetooth on, and then returns to his warm truck, downloads the data to his mobile app via Bluetooth, and then uploads it to the cloud, where his supervisor has direct access. **It's that easy!**



CrystalConnect Mobile App



Control Your XP3i



Connect to your XP3i via Bluetooth to download stored data, stop and start calibration runs, run tests, and view live data. Conduct remote hydrostatic tests, or wirelessly download stored data from the XP3i and upload that file to our CrystalControlWeb cloud software.

Inclement Weather



Too hot? Too cold? Too wet? No Problem! After turning on Bluetooth, connect to the XP3i from the comfort of your temperature controlled vehicle or office (within Bluetooth range). This brings the additional benefit of connecting wirelessly to an XP3i mounted in a hazardous location. Now, leave the XP3i connected to its process while you download data or change settings.

Hard to Reach Locations



Turn on Bluetooth and then mount the XP3i in a hard to reach location. Return to a safer place, and connect via Bluetooth, saving time and increasing safety.



CrystalControlWeb Cloud Solution



Share With Colleagues

Create, manage, and access your unique organization on our cloud server. All data is stored in our cloud service and is available for any user within your CrystalControlWeb organization. Grant users access to your organization through a licence key, and avoid emailing reports back and forth.



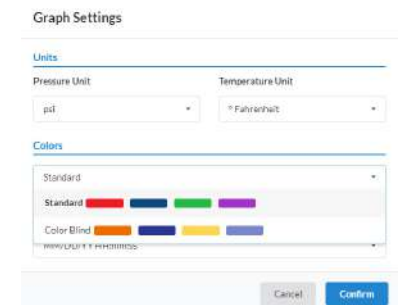
Access Equipment Anywhere

Technicians upload data wirelessly through the CrystalConnect app or directly from the gauge using their computer. Once data is uploaded, it is available for anybody in your organization worldwide. Access CrystalControlWeb from any browser on your computer or mobile device. Download the data from the field and have it available for analysis miles away – immediately.



Customized Graphing and Download Options

Choose graphing details like line color and set axis limits. Name your run data (Pipeline A for example) or add run tags (like a technician's name or test type). Leave the data in our cloud service, or download the graph to a spreadsheet or PDF file. Secure, tamper-proof PDFs are also available, ensuring the integrity of the file.



XP3i Saves Money



From Outlasting Other Equipment to Retaining High Accuracy, the XP3i is the Most Valuable Pressure Equipment You Will Own



One XP3i Replaces Multiple Test Gauges

Your savings start because of the 0.05% of reading accuracy – the highest in class for handheld test gauges. Of scale gauges must be used as close as possible to their full-scale value to maximize accuracy, but the XP3i doesn't have this issue as its of reading accuracy allows it to maintain its accuracy over a wide range. Using an XP3i is like carrying multiple conventional of gauges.



Save on Recalibration Costs

All electronic equipment is subjected to long-term shifts in its accuracy, thus requiring recalibration. However, because you only purchased one XP3i instead of four or more conventional gauges, you only have to recalibrate one instead of five. This savings continues each year when it's recalibration time.



Maintained Accuracy

The XP3i is built on the long-term success and reliability of the industry favorite XP2i. We know from our decade-plus years of customer feedback that when the gauge is due for recalibration, it often doesn't need any adjustments. This leads most companies to perform a pressure check, bypassing a full recalibration if possible. This continued accuracy further reduces and sometimes eliminates recalibration costs.



Last Longer

We designed the XP3i to perform effectively, even in the harshest environments. From extensive improvements in drop protection design to moving the everyday wear to a replaceable adapter to multiple environmental improvements, durability is one of the XP3i's strongest features. This leads to the gauge lasting much longer than conventional equipment, further lowering the overall cost of ownership.

Calibration Reminders and Alerts

Tracking Calibration Intervals

Keeping track of the calibration intervals for all test equipment can be a challenging task in which human error can occur. Calibration stickers or certificates can be misplaced or lost, or the technician may not notice that the gauge is beyond its calibration dates. Even if a company has a system to keep track of these dates, it still requires somebody to notify the technician when recalibrations are due. It also requires the technician to remove the gauge from service once they are notified.

In some industries, auditing of test equipment may result in significant fines if it's found that a gauge was used beyond its calibration due date.

Never Miss a Calibration Again with the XP3i

- Automatic Upcoming Calibration Reminders
- Automatic Calibration Due Date Alerts
- Customizable Reminder Time (in days or weeks)
- Optional Lock Out Feature to Prevent Use After Due Date

Multiple Options Available

Reminders

- Enter Due Date to Fit Your Company Standards
- Enter Notification Time Prior to Due Date (for example 2 weeks)

Cloud Management

While the XP3i will alert users of impending calibration needed, long-term planning is easily attainable using our cloud software CrystalControlWeb. By entering all owned gauges into your CrystalControlWeb organization, you will have all calibration information in one central location. Managing and planning all gauge calibrations becomes a much more manageable task, and assuring that gauges are not used past their recalibration dates becomes much easier.



Enable Calibration Messages



User Calibration Dates

Calibration Date

2024 03 03



Done

Calibration Due

2025 03 03



Special Functions



Pressure Safety Valve Test



No more guess work. Simply enable this feature to enable a special Pressure Safety Valve (PSV) mode. XP3i captures and displays the relief pressure even if you're not looking at the gauge when the valve opens.

Leak Rate



On the Dual Line Display (-DD Model), view Leak Rate or a Tared value along with Live Pressure at the same time. If you have an upgraded version with Data Logging, the second display shows the amount of recorded points.

Custom Units



Define custom pressure units with **CrystalControlWeb**. For example, you can define feet of seawater, tank level, or any torque (N-m or ft-lbs).

Activate the Features You Need

Simplify your XP3i with CrystalControlWeb software by selecting only the functions you use. ([For more information, visit crystalcontrolweb.com](https://crystalcontrolweb.com)) Store multiple configurations on your computer, or set all your XP3i gauges to work the same way.

With CrystalControlWeb and your XP3i you can:

- Enable only the units you use, or add custom units you need (for example: feet of seawater or oz/in²)
- Disable any button (except for Power and Backlight)
- Build and load task-specific configurations from your PC
- Password-protect to prevent changes
- And more...



Crystal Engineering Corporation
708 Fiero Lane, Suite 9, San Luis Obispo, CA 93401, USA
Telephone: +1 805.595.5477 | Fax: +1 805.595.5466

Dear Pressure Gauge User,

Our XP3i is built from the decades of success of the XP2i. For years, we have listened to your feedback on what separates the XP2i (and now the XP3i) from the competition. Would you like to know what makes such a significant difference when you use the XP3i?

Typical Customer Experiences

A Quality Product

"We purchased three XP2i gauges, 18 months ago, because our mechanical test gauges kept breaking. We have been using our XP2i gauges ever since they arrived, without any problems."

A Broad Operating Range

"The first thing I noticed about the XP2i was the broad pressure range. I replaced 3 mechanical gauges. My technicians really appreciated carrying just one gauge instead of the three they were accustomed to."

Training Made Easy

"Last week, I hired a new technician. I configured his XP2i with only the functions he needed, so it took us only 5 minutes to train him and he was ready to go."

A Remarkable Difference

"The time and money we saved with the XP2i is truly remarkable. Over the next year, I intend to replace all our gauges with XP2i gauges. They have made a tremendous difference for us."

We want you to know this experience is **typical** for our customers. At every tradeshow we attend, customers tell us about how the XP2i has improved the way they operate.

Try it For Yourself – You Won't Regret It!

USA, Florida
Tel +1 (800) 527 9999
cal.info@ametek.com

USA, California
Tel +1 (800) 444 1850
crystal@ametek.com

India
Tel +91 22 2836 4750
jofra@ametek.com

Singapore
Tel +65 6484 2388
jofra@ametek.com

China, Shanghai
Tel +86 21 5868 5111
jofra.sales@ametek.com.cn

United Kingdom
Tel +44 (0) 1243 833 302
stc.uk@ametek.com

Germany
Tel +49 (0) 2159 9136 510
info.mct-de@ametek.de

Denmark
Tel +45 4816 8000
jofra@ametek.com

Safe & Reliable in Hazardous Environments

Every XP3i is certified Intrinsically Safe.



II 1G Ex ia IIC T3...T4 Ga FTZU 23 ATEX 0015X



Ex ia IIC T3...T4 Ga IECEx FTZU 23.0017X



Exia Intrinsically Safe for Hazardous Locations:
Class I, Division 1, Groups A, B, C and D, Temperature Code T4/T3C.



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 ISO/IEC 17025) 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.

For detailed specifications
go to the Data Sheet at ametekcalibration.com



No part of this document may be reproduced or modified in any form or by any means, electronic or mechanical, without express written permission from Crystal Engineering Corporation.

©2024 Crystal Engineering Corporation

AMETEK
SENSORS, TEST & CALIBRATION