HPC40 Series
Handheld Pressure Calibrator
Advanced Simplicity

APM and Temperature Connection
Connect to an external APM module to expand the pressure options, plus a high accuracy RTD to read temperature.

“Wireless” Keypad
All input and output connectors are placed away from the display and keypad to give maximum freedom to operate.

Mini-USB Port
Customize the set-up through free CrystalControl software.

Function Buttons
The function of each button is clearly explained in the bottom of the display.

Color Display
The new large full-color display combined with the advanced simplicity of the new user interface, makes the HPC40 Series the easiest-to-use pressure calibrator available.

Cursor Keys
Cursor keys help you to navigate through the display to perform set up functions and fine tune values.

CPF Pressure Connections
Includes patented, leak-free, finger-tight CPF connection fittings.

Unique “Non-Menu” User Interface
Easy to use single layer user interface. No deep menu structure! Operate and set up the HPC40 Series to perform your tasks quickly and intuitively.

AMETEK®
TEST & CALIBRATION INSTRUMENTS
With multiple pressure options, the HPC40 Series fits into any pressure calibration job.

**Sensors**
Choose between a single sensor or a wide range dual sensor version.

**Pressure Ranges**
Choose your pressure range from vacuum to 15,000 psi/1000 bar. Order any combination of pressure ranges without limitations. Because the accuracy is 0.035% of reading, one HPC40 Series can typically replace several gauges or calibrators.

**Absolute Pressure**
Add the BARO option to toggle between gauge and absolute pressure on all ranges.

**APM Pressure Module**
Add an external APM CPF Series pressure module to read up to three pressures using a single device.

**Differential Pressure**
Read differential pressure between any of the three available sensors (including the external APM CPF Series module). A special tare feature allows you to normalize both readings at elevated static pressures, resulting in a more accurate differential pressure.

![Differential Pressure Example](image-url)
More Useful Features

Scaling: When testing a transmitter, it can be beneficial to view the input in units other than mA. For example, if measuring a 4-20 signal on a 0 to 30 psi transmitter, the upper display will show 12 mA when 15 psi is applied. The HPC40 Series will perform this calculation for you, displaying the mA value as psi.

% Error Calculation: The HPC40 Series can calculate pressure vs. mA error as a percentage of the 4-20 mA loop span. For example, if you are testing a 30 psi full scale pressure transmitter with a corresponding 4-20 mA signal, you can program into the calibrator a 0 to 30 psi pressure span, and it will calculate and display the percent error in addition to the mA reading. This eliminates the need to manually calculate the error percentage.

Dampening: If testing a pulsating pressure signal, use the dampening feature to smooth out the measurements, making them easier to read.

Min/Max: With an update rate of 10 readings per second, the HPC40 Series is perfect for pressure safety valve testing.

Leak Rate: The HPC40 Series offers continuous measurement of rate/stability.

Thermometer
Use HPC40 Series as a high accuracy thermometer. Works with RTD’s and CvD equations, to obtain true temperature, based on “true ohm” technology!

Current, Voltage, Switch Test
Full 0 to 24 mA loop calibrator. Measure and source (including step & ramp) with external loop power or internal 24 VDC loop power supply. On top of that it also measures 0 to 55 mA. Use the high speed switch mode screen to detect switch open and closures.

Intelligent Memory Slots
The HPC40 Series can store up to 5 screens (both upper and lower windows). The next time you need to perform your test, simply recall the previous stored settings and the HPC40 Series is ready to use.
**Active Temperature Compensation**

The HPC40 Series is the world’s first combined pressure and mA loop calibrator to be fully temperature compensated from -20 to 50° C. You can count on the same accuracy whether measuring pressure, current, voltage, or temperature.

**Calibrate with Confidence Anywhere**

Take measurements with up to 0.035% of reading accuracy. Every HPC40 Series includes an ISO 17025 calibration report - NIST traceable, A2LA accredited (#2601.01), internationally recognized by ILAC - with test data at 5 temperatures, proving our calibrators meet specifications throughout their full temperature range. Other manufacturers charge extra for a report with data only at room temperature.

**Fittings for Life™**

Crystal Pressure Fittings* are machined in high-strength 316 Stainless Steel to operate at 10,000 psi/700 bar. Removable CPF adapters shift everyday thread wear away from the HPC40 Series’ ports, while a self-venting weep hole alerts you before you disconnect from a pressurized system.

* U.S. Patent No. 8,794,677

**Pump Systems**

Combine the HPC40 Series with any of our ready to use AMETEK pump systems, to provide a complete calibration kit. Our line of pressure generation products includes everything from small pneumatic hand pumps to a precision, hydraulic pressure comparator capable of generating up to 15,000 psi/1000 bar.