



# HPC40 Series

## Handheld Pressure Calibrator



**AMETEK**<sup>®</sup>  
TEST & CALIBRATION INSTRUMENTS

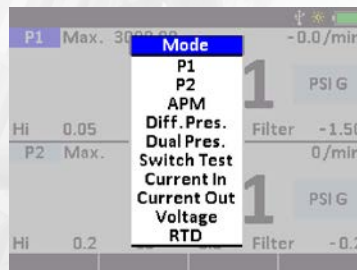
## Simplicity

### Advanced



### 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.



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**Crystal**  
pressure

# Pressure Your Way

With multiple pressure options the HPC40 Series fits into any pressure calibration job.



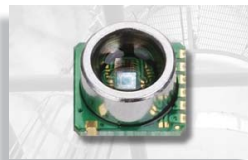
## Sensors

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.

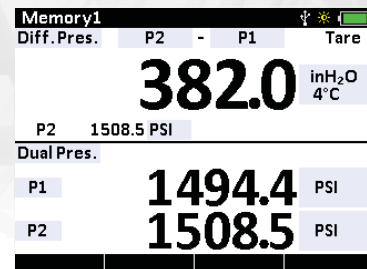


## APM Pressure Module

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.



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# More Than Pressure



## 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.



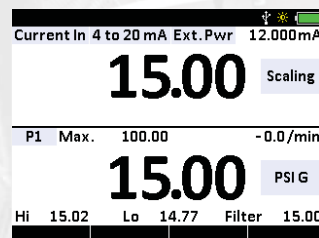
## Intelligent Memory Slots

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.

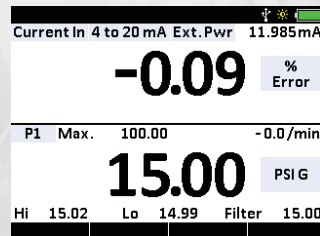
## More Useful Features

**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.

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# Lab Accuracy in the Field



## 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, volt-age, 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 trace-able, 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. Remov-able 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.

