

HPC50 Series vs. IS30 Series

In March 2019, AMETEK Sensors, Test & Calibration introduced the latest in a proud line of accurate, rugged, reliable, easy to use intrinsically safe products from Crystal Engineering. The HPC50 Series Pressure Calibrator combines high accuracy pressure readings with the intuitive user interface and color display. Its unique “menu-free,” single-window interface greatly simplifies operating, allowing all functions to be controlled or set from the main menu screen.

What’s the Difference

	HPC50 Series	IS30 Series
Maximum Pressure Range	10 000 psi/700 bar	5000 psi/300 bar
Accuracy 1 Year	18 to 28°C ± 0.01% FS (0 to 30% of range) ± 0.035% of rdg (30 to 110% of range) -20 to 50°C ± 0.015% FS (0 to 30% of range) ± 0.050% of rdg (30 to 110% of range)	0 to 50°C ± 0.05% of rdg + Floor Term (0 to 110% of range) Floor Term: 0.005% of FS or display resolution, whichever is greater
Number of Internal Pressure Sensors	1 or 2 (3 with BARO)	1 or 2
Selectable and Displayed H ₂ O Reference	Yes	No (set in software)
Selectable Gauge/Absolute	Yes (with optional internal barometer)	No
mA Range	55 mA	55 mA
mA Sink Range	25 mA	—
mA and V Temperature Compensation	-20 to 50°C	0 to 50°C
mA Accuracy; Hart Resistor	± 0.015% of rdg + 0.002 mA; Yes	± 0.025% of rdg + 0.001 mA; No
Voltage (VDC) Accuracy	± 0.015% of rdg +2 mV	—
Scaling, % Flow, % Error Calculation	Yes	No
Leak Testing	Yes (real-time leak rate)	No
IP Rating	IP66/67	—
Display Backlight	Yes	No
Differential Pressure	Yes (special high accuracy/more resolution mode)	No
Switch Test and Damping	Yes	No
Test Leads Included	Yes	No
External Pressure Module	Yes	No
Temperature Measurement	Yes, external module with probe	No
Display Size	37 x 50 mm	14 x 30 mm

