

► Advantages

- Easy to Use
 - Rugged Field Use Design
 - Temperature Compensated
- 1-3 Year Recommended Calibration Intervals
 - Record and Store Tests
- Free Calibration & Configuration Software
 - Innovative Patented Technology
- ISO17025 Accredited Calibration Certificates
 - Intrinsically Safe



Pressure Gauges and Calibrators

	Specifications			Functions									Product
	Pressure Accuracy	IP Rating	Compensated Temp. Range	Logging Option	Diff. Pressure	Absolute Pressure	Read Temp.	Read Elect.	24VDC Supply	External Modules	Intrinsically Safe	Bluetooth	
Vacuum to 15 000 psi	± 0.035% Rdg*	IP65	-4 to 122°F		✓	✓	✓	✓	✓	✓			HPC40 Series
Vacuum to 15 000 psi	± 0.1% Rdg	IP67	14 to 122°F	✓		✓					✓		XP2i
Vacuum to 15 000 psi	± 0.025% Rdg	IP67	-4 to 122°F	✓	✓	✓	✓	✓			✓		nVision
Vacuum to 10 000 psi	± 0.035% Rdg*	IP65	-4 to 122°F		✓	✓	✓	✓		✓	✓		HPC50 Series
Vacuum to 15 000 psi	± 0.05% Rdg	IP66 & IP67	-4 to 122°F	✓		✓					✓	✓	XP3i
Vacuum to 10 000 psi	± 0.2% Rdg	IP65	14 to 122°F										m1
Vacuum to 5 000 psi	± 0.05% Rdg + 0.005% FS	-	32 to 122°F					✓			✓		30 Series
Vacuum to 3 000 psi	± 0.25% Rdg	IP65	14 to 122°F										m1M

▼ For complete specifications details, please visit [ametekcalibration.com](https://www.ametekcalibration.com).

Of Reading Accuracy

Our gauge accuracy is defined as “percent of reading”. For example, a gauge with 0.1 percent of reading accuracy that displays 100 psi would be accurate to ± 0.1 psi at that pressure. At 50 psi, the same gauge would have an accuracy of ± 0.05 psi (twice as accurate). This versatility is why one of our gauges can replace 3 to 5 standard “of scale” rated gauges.

Temperature Compensation

Our active temperature compensation corrects sensors for changes in temperature within our specified ranges (up to -20 to 50°C). Without temperature compensation, the additional errors can quickly overwhelm the basic specification at common working temperatures.

Wireless Communication

Avoid hazardous locations, inclement weather, and hard-to-reach locations but connecting to the XP3i wirelessly. Use the CrystalConnect mobile application to quickly start or stop logging runs, download data, and add or remove features.

Self-Regulating Design

The instrument’s built-in flow regulator automatically adjusts the input air flow to maintain the ball and weights in a float position. The regulator also compensates for variations in pressure from the air supply. Simply add or remove weights to generate your target pressure.

Leak-free Seal up to 10 000 psi

Our patented CPF fitting design maintains a leak-free seal up to 10 000 psi, with only finger-tightening. Improve safety with a self-venting weep hole, which alerts you, by leaking gas or test fluid, before you fully disconnect from a pressurized system. Each of our products either includes CPF fittings as standard, or can be adapted to our CPF line.

Deadweight Testers

	Specifications			Functions							Product
	Standard Pressure Accuracy	Minimum Increment	Pressure Connection (NPT F)	Dual Piston Available	Dual Column Available	Tripod Compat.	Hydraulic	Pneumatic	Self Regulating	Ball Type	
10 psi to 15 000 psi	± 0.015% Rdg	5 psi	1/4" and 1/2"	✓	✓		✓		✓		Type T Series
4 inH ₂ O to 30 psi	± 0.05% Rdg	1 inH ₂ O	1/4"			✓		✓		✓	PKII Series

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	Pressure Accuracy	IP Rating	Compensated Temp. Range	Logging Option	Diff. Pressure	Absolute Pressure	Read Temp.	Read Elect.	24VDC Supply	External Modules	Intrinsically Safe	Bluetooth	
Vacuum to 1000 bar	± 0.035% Rdg*	IP65	-20 to 50°C		✓	✓	✓	✓	✓	✓			HPC40 Series
Vacuum to 1000 bar	± 0.1% Rdg	IP67	-10 to 50°C	✓		✓					✓		XP2i
Vacuum to 1000 bar	± 0.025% Rdg	IP67	-20 to 50°C	✓	✓	✓	✓	✓			✓		nVision
Vacuum to 700 bar	± 0.035% Rdg*	IP65	-20 to 50°C		✓	✓	✓	✓		✓	✓		HPC50 Series
Vacuum to 1000 bar	± 0.05% Rdg	IP66 & IP67	-20 to 50°C	✓		✓					✓	✓	XP3i
Vacuum to 700 bar	± 0.2% Rdg	IP65	-10 to 50°C										m1
Vacuum to 300 bar	± 0.05% Rdg + 0.005% FS	-	0 to 50°C					✓			✓		30 Series
Vacuum to 200 bar	± 0.25% Rdg	IP65	-10 to 50°C										m1M

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Deadweight Testers

	Specifications			Functions							Product
	Standard Pressure Accuracy	Minimum Increment	Pressure Connection (NPT F)	Dual Piston Available	Dual Column Available	Tripod Compat.	Hydraulic	Pneumatic	Self Regulating	Ball Type	
1 bar to 1000 bar	± 0.015% Rdg	5 psi	1/4" and 1/2"	✓	✓		✓	✓	✓		Type T Series
10 mbar to 2 bar	± 0.05% Rdg	1 inH ₂ O	1/4"			✓				✓	PKII Series



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Vacuum to 100 MPa	± 0.1% Rdg	IP67	-10 to 50°C	✓		✓					✓		XP2i
Vacuum to 100 MPa	± 0.025% Rdg	IP67	-20 to 50°C	✓	✓	✓	✓	✓			✓		nVision
Vacuum to 70 MPa	± 0.035% Rdg*	IP65	-20 to 50°C		✓	✓	✓	✓		✓	✓		HPC50 Series
Vacuum to 100 MPa	± 0.05% Rdg	IP66 & IP67	-20 to 50°C	✓		✓					✓	✓	XP3i
Vacuum to 70 MPa	± 0.2% Rdg	IP65	-10 to 50°C										m1
Vacuum to 30 MPa	± 0.05% Rdg + 0.005% FS	-	0 to 50°C					✓			✓		30 Series
Vacuum to 20 MPa	± 0.25% Rdg	IP65	-10 to 50°C										m1M

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Deadweight Testers

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	Standard Pressure Accuracy	Minimum Increment	Pressure Connection (NPT F)	Dual Piston Available	Dual Column Available	Tripod Compat.	Hydraulic	Pneumatic	Self Regulating	Ball Type	
100 kPa to 100 MPa	± 0.015% Rdg	5 psi	1/4" and 1/2"	✓	✓		✓	✓	✓		Type T Series
1 kPa to 200 kPa	± 0.05% Rdg	1 inH ₂ O	1/4"			✓				✓	PKII Series



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