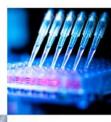


Temperature - Pressure - Process

























SENSORS, TEST & CALIBRATION

A world leader in the development and manufacture of calibration instruments for pressure, temperature, and process.

A Truly Global Business

metek STC designs and manufactures some of the world's best solutions for a wide variety of markets and applications. Whether it's temperature, pressure, or process equipment you are looking for, we provide the highest quality products from our world-class calibration labs in California, Florida, and Denmark.

Combined with our software engineering and research office in India, our various sales and service centers, and over 150 distributors around the globe, our world-wide presence allows us to provide outstanding service no matter where you are!



measurement equipment from our ISO 17025 accredited lab.





Largo, FL USA Mansfield and Green

M&G designs and manufactures a variety of deadweight testers, handpumps, and comparators, for field and lab use from our ISO 9001 certified facility.

















O Sales, Service, Manufacturing, and Engineering

O Sales and Service

A diverse product line, unique features, and world class support for a wide range of calibration solutions.

Why We're Better

Effective Solutions

ne Crystal pressure product often does the work of three to five devices from other manufacturers — replacing your data logger, your chart recorder, multiple test gauges, and even a deadweight tester with a single device.



Shown from left to right:

The nVision, XP2i, HPC40 Series, and HPC50 Series

ur JOFRA dry-block temperature calibrators are the fastest solution available for accurately calibrating temperature. One high speed calibrator reduces test time while also offering automated, hands-off operation, allowing a technician to complete multiple tasks simultaneously. We even have a model that only requires calibration once every three years!



The CTC-1205 and RTC-700.



Reduce Measurement Error

e use active temperature compensation to ensure you have lab accuracy in nearly any outdoor climate. We define our accuracy clearly, so you know where you stand without working complex calculations. And, our advanced simplicity interfaces allow you to quickly learn the product, helping to reduce user error.

Increased Safety

rom the safest hoses and fittings available, to high over-pressure protection, our technology sets a new standard for safety. Why take a chance?



A family of intrinsically safe calibrators, gauges, and dataloggers capabile of accurate measurement up to 15 000 psi/1000 bar.



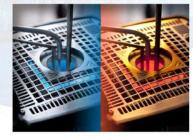
With Active Temperature Compensation, you can count on the same accuracy at any temperature between -20 and 50° C.



Fast and safe calibration of sanitary flange sensors using our unique reference sensor STS-102A and dedicated, built-in calibrator controller.



For extended recording, nVision replaces chart recorders with higher accuracy in a smaller, lighter, more rugged packgage.



Our patented cooling/heating technology makes it possible to calibrate from -100 to 155° C with one calibrator.



Create tamper proof (secure) digital records of pressure, temperature, and current recordings.



Each XP2i includes a *free* NIST-traceable, A2LA accredited calibration report from our world-class ISO 17025, accredited labs.



Pneumatic and hydraulic deadweight testers provide industry standard accuracy.



"Advanced Simplicity" single layer user interface. No deep menu structure!



An array of temperature sensors to meet your specific needs, including special cable types for use under a sanitary flange.

Dry-block
and liquid-bath
temperature
calibrators
featuring
portability,
accuracy, and
speed.

Temperature





Innovative Temperature Measurement

rom our active dual-zone calibration principle, to our patented Dynamic Load Compensation sensor, we are constantly striving to provide the most accurate and reliable temperature products available.

High Quality Sensors

Since we produce reference temperature sensors for nearly any application, we probably have the right one for yours. For added safety, our intellegent design ensures correct identification and calibration data are loaded into our calibrators and indicators.



-100°C		155°C	
-90°C		125°C	
	-45°C		180°C
	-45°C	155°C	
	-30°C	155°C	
	-25°C	155°C	
	-22°C	155°C	
	-25°C	155°C	
	-10°C	125°C	
Temp	erature Range		

-100°C		155°C					
-90°C		125°C					
_	45°C	180°C					
-	15°C	155°C					
	-30°C	155°C					
	-25°C	155°C					
	-22°C	155°C					
	-25°C	155°C					
	-10°C	125°C					
Temperature Range							

28°C	250	°C	
28°C		350°C	
33°C		350°C	
33°C		425°C	
28°C		400°C	
28°C	INFRARED	400°C	
28°C		660°C	
28°C		650°C	

33°C 660°C	
33°C 700°C	
100°C 120	5°C
Temperature Range	S

^{0.30} 0.030 0.001 0.30 0.07 0.030 0.01 Dry 29.7 0.10 0.04 0.005 0.001 Dry 29.7 0.04 0.005 0.001 Dry 29.7 0.10 160 0.10 0.04 0.005 0.001 Dry 25.8 160 0.18 0.06 0.010 0.01 19.9 63.5 0.18 0.04 0.010 0.001 Dry/Wet 180 0.30 0.20 0.040 0.1 Dry 25.8 120 0.50 0.050 0.1 Dry 12.5 110 Specifications



Internal	inschens	curacy ^{eC} Stabil	ideC) Resc	nution (C)	insert Insert	aneter Introes	or me	terna .	isensor	Index Stinout*	cload ation	ie brito	ster Switch	n Test Mains V	riance nunity
0.28	0.07	0.020	0.001	Dry/Wet	63.5	180	v	,	✓	✓	1	\checkmark	√	✓	RTC-250
0.45	0.25	0.050	0.01	Dry	25.7	110	✓	_			✓	\checkmark	✓	\checkmark	CTC-350A
0.20	0.08	0.020	0.01		25.8	140			✓		✓	\checkmark	✓	✓	PTC-350
‡ 0.20 0.25	0.13	0.020	0.01	Dry	25.8	150	V	/	✓		✓	\checkmark	✓	\checkmark	PTC-425
0.50	_	0.150	0.1	Dry	Fixed	105						\checkmark			ETC-400
0.50	_	0.300	0.1	Dry	36.0	_						\checkmark			ETC-400R
0.85	0.45	0.080	0.01	Dry	25.7	110	✓	/			✓	\checkmark	✓	✓	CTC-660A
0.65	0.45	0.050	0.01	Dry	25.7	190	✓	/			✓	\checkmark	✓	✓	CTC-652
0.30	0.15	0.040	0.01	Dry	24.8	150	✓		✓		✓	✓	✓	✓	PTC-660
0.29	0.11	0.020	0.001	Dry	29.8	200	v	/	✓	\checkmark	✓	\checkmark	✓	✓	RTC-700
2.00	2.00	0.100	0.01	Dry	27.0	137	v	/			✓	✓	✓	✓	CTC-1205
Specifi	cations						Fu	ncti	ons						Model

^{*} RTD, TC, mA active, mA passive, and switch. ‡ At 33 to 350° C / At 350 to 425° C.

Calibration

solutions featuring

digital gauges & calibrators, plus pneumatic & hydraulic deadweight testers.

Pressure





















ur pressure equipment includes some of the world's most popular digital gauges and calibrators for a variety of applications and markets. Included are intrinsically safe "% of reading" gauges and calibrators, differential pressure gauges, reference data recorders, calibrators with built in pumps, and unique pneumatic and hydraulic deadweight testers. In many cases, one handheld calibrator can replace multiple instruments, reducing ongo-

ing recalibration and mai

Our recorders collect readings as quickly as ten times per second, and store up to one million data points.

aintenance costs.	Pressure Accuracy	Vacuum uzcy	Operating Rang	8 kg	ing es	Pressure Rection		alogoines Differe	ntial esolut	e restire ad	mperatur Read	2AVPC	wer Suph Switch	n Test External	SU
	bus be	710 VC	06 Ye.	8.	bic	8/4 Cr	00	Q1, 6,	by by	de le	, de	2h 80	Sir	67. Se	4
Vacuum to 15 000 psi	± 0.035% Rdg	± 0.05% FS	-20 to 50° C	IP65	1 or 2	CPF Female		√	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
Vacuum to 15 000 psi	± 0.1% Rdg	± 0.25% FS	-10 to 50° C	IP67	1	CPF Female	✓		\checkmark						,
Vacuum to 15 000 psi	± 0.025% Rdg	± 0.06% FS	-20 to 50° C	IP67	1 or 2	CPF Female	✓	✓	✓	✓	✓		✓		,
Vacuum to 10 000 psi	± 0.035% Rdg	± 0.05% FS	-20 to 50° C	IP65	1 or 2	CPF Female		✓	\checkmark	\checkmark	\checkmark		\checkmark	\checkmark	,
Vacuum to 10 000 psi	± 0.2% Rdg	± 0.25% FS	-10 to 50° C	IP65	1	CPF Female									
Vacuum to 5000 psi	± 0.05% Rdg + 0.005% FS	± 0.25% Rdg	0 to 50° C	_	1 or 2	1/8" NPT Female					\checkmark				,
Vacuum to 3000 psi	± 0.25% Rdg	± 0.5% FS	-10 to 50° C	IP65	1	CPF Female									
Vacuum to 100 psi	± 0.1% Rdg	± 0.1% Rdg	-10 to 50° C	IP67	1	1/8" NPT Female	✓	✓							,
Pressure Range	Specifications						Func	tions							
From 18 to 28° C.	Typical. Plus eith	er 0.004 or 0.01	psi. 1/4	I" NPT N	۸, 1/4" B:	SP M, or M20 M ad	lapter inc	luded.	1/4"	NPT M a	ind 1/4"	BSP M a	dapters	included	l.

, 21	ogging Differen	tial essure	essure	mperature Read	tectrical 2AVPC	wer Supply	nTest Externi	assure Module	sically safe
Oate	Øitt 64	V _D S Su	V Read Le	√ Aso	2ª . 6c	N. Sull	←	Inti	HPC40 Series
\checkmark		\checkmark						\checkmark	XP2i
\checkmark	✓	\checkmark	✓	\checkmark		\checkmark		\checkmark	nVision
	✓	✓	✓	\checkmark		✓	✓	\checkmark	HPC50 Series
									m1
				✓				\checkmark	30 Series
									m1M
✓	✓							✓	XP2i-DP
Functi	ons								Model



	standard pressure was	Optional sure proch	Makinum	e Minimum	ure Minimur	presture presture rection*	Quality	stone Oua Aug	Junin Tripod	ompatibility Sm. W	jenental jent sets jeight sets	adjic Priei	imatic Self C	ontained Self Res	Julating Included	Hind Case
10 psi to 15 000 psi	± 0.015% Rdg	± 0.025%, ± 0.1%	15 000 psi	10 psi	5 psi	1/4" and 1/2" NPT F	✓	✓		1	√		1		1	Type T Series
10 psi to 3000 psi	± 0.1% Rdg	± 0.05%	3000 psi	10 psi	0.1 psi	1/4" NPT F	✓		\checkmark		✓		✓		✓	HL Series
10 psi to 1500 psi	± 0.025% Rdg	_	1500 psi	10 psi	1 psi	7/16-20 37° AN4 M						✓		\checkmark		HK Series
4 inH ₂ O to 301 psi	± 0.05% Rdg	± 0.025%, ± 0.015%	301 psi	4 inH ₂ O	1 inH ₂ O	1/8" NPT F			\checkmark	✓		✓		\checkmark	✓	RK Series
4 inH ₂ O to 30 psi	± 0.05% Rdg	± 0.025%, ± 0.015%	30 psi	4 inH ₂ O	1 inH ₂ O	1/4" NPT F			\checkmark	✓		✓		\checkmark	✓	PKII Series
Pressure Range	Specification	ns					Funct	tions								Model*

🔻 With installed adapter to 1/4 tube fitting. 🔃 🔻 Not included with dual column or 0.015% accuracy. These units are supplied with bench top column mounting plate and tubing.

e provide the world's only ball-type deadweight testers, where the ball and weights float on a thin film of air, which is virtually frictionless. This design eliminates the necessity to rotate the weights during testing, and allows the user to concentrate on the instrument itself. Our testers are engineered to offer user-friendly, safe operation, in the field, or in a lab. Both pneumatic and hydraulic testers are available.









^{*} CPF connections are available for all deadweight tester models.

From
laboratory
multi-channel
scanners to
handheld field
instruments, we
have the tools for
your process
measurement
needs.

Process



he ASC-400 is our latest multifunction process calibrator, which includes an easy-to-use, advanced simplicity user interface. Read and source RTD, thermocouple, current, voltage, frequency, and resistance to calibrate or verify your process sensors. Or, combine with the APM CPF pressure modules to calibrate pressure, or a dry-block to calibrate temperature.

If you don't need the advanced features found in our multifunction calibrator, our

single task instruments, including the mAcal and ASM Series make calibrating instruments like pressure transmitters and temperature sensors fast and easy.



R = Read S = Source R/S = Both

AMETEK®
SENSORS, TEST & CALIBRATION

Our pressure generation products include everything from small pneumatic hand pumps to a precision hydraulic pressure comparator capable of generating up to 15 000 psi/ 1000 bar/ 100 MPa.





rystal Pressure Fittings (CPF) are a new line of quick-test pressure fittings for calibration and test applications, designed with an emphasis on safety. They feature leak-free performance up to 15 000 psi /1000 bar, and include a safety weep hole to alert you before you accidently disconnect from a pressurized system. The weep hole can also be used as a bleed point. CPF fittings seal two ways: use fingers for an o-ring seal or use a wrench for a metal to metal cone seal (good to -40°C).

> ur pressure hand pumps, comparators, and fittings & hoses are the perfect complement to our popular pressure gauges and calibrators. Each is available as a stand-alone pump or part of a complete system

> > with the indicator included. From pneumatic and hydraulic hand pumps, to pressure

comparators capable of controlling pressure up to 15 000 psi/ 1000 bar, to the safest, most reliable pressure fitting and hose system available, we have the pressure generation



	Puert.	Agus Hauge	The Cak su	3.
-26 inHg to 0 psi	Р	Н		T-810
0 psi to 200 psi	Р	Н		T-811
0 psi to 30 psi	Р	Н	✓	T-960-CPF
-25 inHg to 30 psi	Р	н	✓	T-965-CPF
0 psi to 580 psi	Р	Н	✓	T-970-CPF
-27 inHg to 580 psi	Р	Н	✓	T-975-CPF
0 psi to 3000 psi	Н	Н	✓	T-620-CPF
0 psi to 5000 psi	Н	Н	✓	T-620H-CPF
0 psi to 5000 psi	Н	В	✓	P-018-CPF
0 psi to 10 000 psi	Н	В		P014
0 psi to 15 000 psi	Н	В	✓	T-1-CPF
0 psi to 15 000 psi	Н	В	✓	GaugeCalHP
Pressure Range	Specif	fication	s	Model

CPF Fittings



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 5868 5111 jofra.china.sales@ametek.com.cn

China, Beijing Tel +86 10 8526 2111-19/24/25 jofra.china.sales@ametek.com.cn

China, Guangzhou Tel +86 10 8526 2111-19/24/25 jofra.china.sales@ametek.com.cn

*ISO 17025 accredited calibration lab, (A2LA #2601.01). **DIN EN ISO / IEC 17025 accredited calibration lab.

United Kingdom

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

France

Tel +33 (0) 30 68 89 40 general. I loyd-instruments@ametek. fr

Germany**

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

Denmark***

Tel +45 4816 8000 jofra@ametek.com

*** DANAK EN ISO/IEC 17025 accredited calibration lab.

ametekcalibration.com

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