

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!



accurate, field-capable, easy-to-use, reliable pressure calibration and 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.



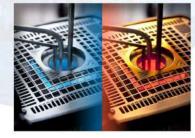
With Active Temperature Compensation, you can count on the same accuracy at any temperature between -20 and 50° C.



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





SENSORS, TEST & CALIBRATION

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.

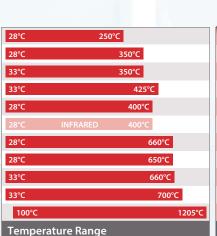
High Quality Sensors

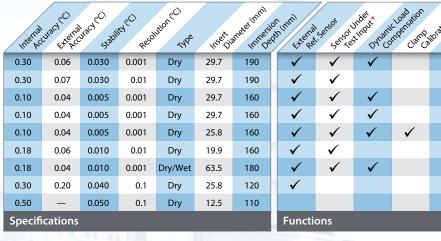
Since we produce reference temperature sensors for nearly any application, we probably have the right one for yours. For added safety, our intellegent design ensures correct identification and calibration data are loaded into our calibrators and indicators.



-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	
-4	5°C	18	80°C
-45	5°C	155°C	
	-30°C	155°C	
	-25°C	155°C	
	-22°C	155°C	
	-25°C	155°C	
	-10°C	125°C	
Tempera	ature Range		





Internal	curacyec ha	curacyect stabil	,tayeC) Resol	Jution et Type	Insert Insert	ineter (mineter)	or Introl	Sensor	Indert* Dynamic	cload stion	ons Autor	step Switch	n Test Nains Va	nunity
0.28	0.07	0.020	0.001	Dry/Wet	63.5	180	✓	✓	✓	✓	✓	✓	✓	RTC-250
0.45	0.25	0.050	0.01	Dry	25.7	110	✓			✓	✓	✓	✓	CTC-350A
0.20	0.08	0.020	0.01		25.8	140		✓		✓	✓	✓	✓	PTC-350
‡ 0.20 0.25	0.13	0.020	0.01	Dry	25.8	150	✓	✓		✓	\checkmark	✓	✓	PTC-425
0.50	_	0.150	0.1	Dry	Fixed	105					✓			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	✓			✓	✓	✓	✓	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	✓	✓	\checkmark	✓	\checkmark	✓	✓	RTC-700
2.00	2.00	0.100	0.01	Dry	27.0	137	✓			✓	✓	✓	✓	CTC-1205
Specifications							Functions							Model

RTC-159

PTC-125

RTC-187

RTC-157

RTC-156

PTC-155

RTC-158

CTC-155

ETC-125

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 dead-

weight 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 maintenance costs.

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

naintenance costs.	6.9	6.2	indpan	96	, ob	resent rection			ading	tiale.	e e	rature	rectrict	CALDIA	rest ?	I e MOC	.cally 3
	Restriction CA	Vacuum vacy	Operating Range	R _E	Pres.	the sent street on the street of the street	//	Dataic	Differe	tial essure property	essur Read	in Derature Read	Electrica 24 PG	Swer Supply	Externo	essure Mou	Scally 3
Vacuum to 15 000 psi	± 0.035% Rdg	± 0.05% FS	-20 to 50° C	IP65	1 or 2	CPF Female			✓	✓	✓	✓	✓	✓	✓		HPC40 Series
Vacuum to 15000 psi	± 0.1% Rdg	± 0.25% FS	-10 to 50° C	IP67	1	CPF Female		\checkmark		✓						✓	XP2i
Vacuum to 15000 psi	± 0.025% Rdg	± 0.06% FS	-20 to 50° C	IP67	1 or 2	CPF Female		✓	✓	✓	✓	\checkmark		✓		✓	nVision
Vacuum to 10 000 psi	± 0.035% Rdg	± 0.05% FS	-20 to 50° C	IP65	1 or 2	CPF Female			✓	✓	✓	✓		✓	\checkmark	✓	HPC50 Series
Vacuum to 10 000 psi	± 0.2% Rdg	± 0.25% FS	-10 to 50° C	IP65	1	CPF Female											m1
Vacuum to 5000 psi	± 0.05% Rdg + 0.005% FS	± 0.25% Rdg	0 to 50° C	_	1 or 2	1/8" NPT Female						✓				✓	30 Series
Vacuum to 3000 psi	± 0.25% Rdg	± 0.5% FS	-10 to 50° C	IP65	1	CPF Female											m1M
Vacuum to 100 psi	± 0.1% Rdg	± 0.1% Rdg	-10 to 50° C	IP67	1	1/8" NPT Female		\checkmark	✓							✓	XP2i-DP
Pressure Range	Specifications Functions										Model						
From 18 to 28° C. Typical. Plus either 0.004 or 0.01 psi. 1/4" NPT M, 1/4" BSP M, or M20 M adapter included. 1/4" NPT M and 1/4" BSP M adapters included.																	



	Standard ute vaccinació	Opidra due rach	Matinum	e Minimum	ure Minimum	presture editor*	Qual Pi	stor le dia la	during ripod	ompatibility	Jenental Reight Sets	aulic Preut	natic Self C	ontained Self Red	dating Included	ding Case
10 psi to 15000 psi	± 0.015% Rdg	± 0.025%, ± 0.1%	15 000 psi	10 psi	5 psi	1/4" and 1/2" NPT F	√	✓		✓	✓		✓		√	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		✓		\checkmark		✓	HL Series
10 psi to 1500 psi	± 0.025% Rdg	_	1500 psi	10 psi	1 psi	7/16-20 37° AN4 M						✓		✓		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			✓	✓		✓		✓	✓	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			✓	✓		✓		✓	✓	PKII Series
Pressure Range	ange Specifications						Functions									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.

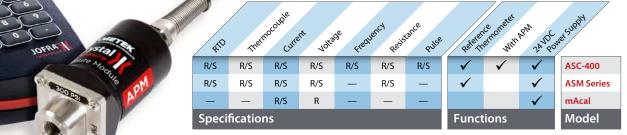
If you don't need the advanced features found in our multifunction calibrator, our

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





mAcal



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.

Pumps & Fittings



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



	bug H.	49, 86	ar Cox are	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	ication	Model	

CPF Fittings



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

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