









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.



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!

AMETEK®
SENSORS, TEST & CALIBRATION



The CTC-1205 and RTC-700.





### Reduce Measurement Error

We 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* NISTtraceable, A2LA accredited calibration report from our world-class ISO 17025, accredited labs.



Pneumatic and hydraulic deadweight testers provide industry standard accuracy.

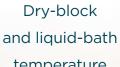


"Advanced Simplicity" single layer user interface. No deep menu structure!



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





temperature
calibrators
featuring
portability,
accuracy, and
speed.

# Temperature





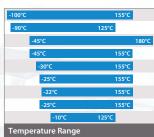


## Innovative Temperature Measurement



### High Quality Sensors

S ince 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.



	Internal	Curacy eco	dracye <sup>C</sup> Stabil	ity <sup>eC</sup> Reso	nation eco	Insert	ineter (mmersi	or trong	Sensor Sensor	Inder Striput	cload damp	ilibration Set Follows	ions Autor	seo Switch	Kest
	0.30	0.06	0.030	0.001	Dry	29.7	190	<b>✓</b>	✓	<b>√</b>		<b>√</b>	✓	<b>√</b>	RTC-159
	0.30	0.07	0.030	0.01	Dry	29.7	190	✓	✓			✓	✓	✓	PTC-125
1	0.10	0.04	0.005	0.001	Dry	29.7	160	✓	✓	✓		✓	✓	✓	RTC-187
	0.10	0.04	0.005	0.001	Dry	29.7	160	✓	✓	✓		✓	✓	✓	RTC-157
	0.10	0.04	0.005	0.001	Dry	25.8	160	✓	✓	✓	✓	✓	✓	✓	RTC-156
	0.18	0.06	0.010	0.01	Dry	19.9	160	✓	✓			✓	✓	✓	PTC-155
	0.18	0.04	0.010	0.001	Dry/Wet	63.5	180	✓	✓	✓		✓	✓	✓	RTC-158
	0.30	0.20	0.040	0.1	Dry	25.8	120	✓				✓	✓	✓	CTC-155
	0.50	_	0.050	0.1	Dry	12.5	110						✓		ETC-125
	Specifi	cations						Function	Model						

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		11	205°C
Tempera	ture Range		

_	Internal	Stracye <sup>C</sup>	curacy <sup>eC</sup> Stabi	idy <sup>CC</sup> Resc	nution (C)	Insert	ameter immersion	or m	External External	Sensor Sensor	Indet Input	Lload ston	ons Le Autor	jep	
	0.28	0.07	0.020	0.001	Dry/Wet	63.5	180		✓	✓	✓	✓	✓	١	
	0.45	0.25	0.050	0.01	Dry	25.7	110		✓			✓	✓	١,	
	0.20	0.08	0.020	0.01		25.8	140			✓		✓	✓	٠,	
1	‡ 0.20 0.25	0.13	0.020	0.01	Dry	25.8	150		✓	✓		✓	✓	٠,	
	0.50	_	0.150	0.1	Dry	Fixed	105						✓		
	0.50	_	0.300	0.1	Dry	36.0	_						✓		
	0.85	0.45	0.080	0.01	Dry	25.7	110		✓			✓	✓	٠,	
	0.65	0.45	0.050	0.01	Dry	25.7	190		✓			✓	✓	٠,	
	0.30	0.15	0.040	0.01	Dry	24.8	150		✓	✓		✓	✓	٠,	
	0.29	0.11	0.020	0.001	Dry	29.8	200		✓	✓	✓	✓	✓	٠,	
	2.00	2.00	0.100	0.01	Dry	27.0	137		✓			✓	✓	١	
	Specifi	cations				Functions									

<sup>\*</sup> RTD, TC, mA active, mA passive, and switch. ‡ At 33 to 350° C / At 350 to 425° C.



RTC-250

CTC-350A
PTC-350
PTC-425
ETC-400
ETC-400R
CTC-660A
CTC-652
PTC-660
RTC-700
CTC-1205



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 ma

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

naintenance costs.	Ressure Recuracy	um acy	Operating Ran	lb br	ring	are Se. Somection.		Datak	oggins, en	tiale au	ie ure	mperatur Read	Electi.	Juner Supply	ntest no	essure Marine	cally
	Press Accul	Aschrunge, Aschrack	Operemp	lb b3	Press	Press Cont.	//	Oatai	oggins Differen	Absolute Pr	ess Read	nk Read	2470	Jule Swift	Extern	essure Merine	
Vacuum to 15 000 psi	± 0.035% Rdg	± 0.05% FS	-20 to 50° C	IP65	1 or 2	CPF Female	Ш		✓	✓	✓	✓	✓	✓	✓		<b>HPC40 Series</b>
Vacuum to 15 000 psi	± 0.1% Rdg	± 0.25% FS	-10 to 50° C	IP67	1	CPF Female		✓		✓						✓	XP2i
Vacuum to 15 000 psi	± 0.025% Rdg	± 0.06% FS	-20 to 50° C	IP67	1 or 2	CPF Female	Ш	✓	✓	✓	✓	✓		✓		✓	nVision
Vacuum to 10 000 psi	± 0.035% Rdg	± 0.05% FS	-20 to 50° C	IP65	1 or 2	CPF Female			✓	✓	✓	✓		✓	✓	✓	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	Ш										m1M
Vacuum to 100 psi	± 0.1% Rdg	± 0.1% Rdg	-10 to 50° C	IP67	1	1/8" NPT Female		✓	✓							✓	XP2i-DP
Pressure Range Specifications									Functions								

🤻 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 Sure Accuracy	Optional sure land	Matinum	Nichturn	Minimur Minimur	enent Pressure Rection	Ougle:	storn Dual A	Junit Pripod	Jrnpatibility	eight Sets	preu	matic Self C	ontains Self Rec	Mype Included	Trying Casa
10 psi t	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	<b>✓</b>	✓		✓	✓		✓		<b>√</b>	Type T
10 psi t	to 3000 psi	± 0.1% Rdg	± 0.05%	3000 psi	10 psi	0.1 psi	1/4" NPT F	✓		✓		✓		✓		✓	HL Serie
10 psi t	to 1500 psi	± 0.025% Rdg	_	1500 psi	10 psi	1 psi	7/16-20 37° AN4 M						✓		✓		HK Seri
4 inH <sub>2</sub> 0	O to 301 psi	± 0.05% Rdg	± 0.025%, ± 0.015%	301 psi	4 inH <sub>2</sub> O	1 inH <sub>2</sub> O	1/8" NPT F			✓	✓		✓		✓	✓	RK Serie
4 inH <sub>2</sub> 0	O to 30 psi	± 0.05% Rdg	± 0.025%, ± 0.015%	30 psi	4 inH₂O	1 inH <sub>2</sub> O	1/4" NPT F			✓	✓		✓		✓	✓	PKII Ser
Press	ure Range	Specification	ns	Functions													

🔻 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.

\* CPF connections are available for all deadweight tester models.

We 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.













