

PTC Series

Professional Temperature Calibrator PTC-155/350/425/660





What to expect



Unique Temperature Performance



The PTC series provides precision temperature calibration of sensors, whatever the type or format. This is accomplished through an innovative active dualzone heating technology where each heating zone is independently controlled for precision temperature calibration.

Wide Temperature Range



The PTC Series performs calibration over a wide temperature range, making it ideal for many industries and applications.

PTC-155: -25 to 155°C

PTC-350: 33 to 350°C

PTC-425: 33 to 425°C

PTC-660: 33 to 660°C

3 Models Available



The PTC Series comes in three different models:

- A The calibrator without inputs
- **B** The calibrator with inputs for a reference sensor and device-under-test
- **C** The calibrator with an input for a reference sensor

Introducing the new PTC-425



We are pleased to announce our latest model, the PTC-425. It is ideal for sterilization tunnels, or for process validation and monitoring solutions used in the pharmaceutical, medical and food industry. The PTC-425 has a temperature range from 33 to 425°C.

Unique Reference Sensors

The STS-150 reference sensor is angled at 90° and is only slightly higher than the top of the PTC calibrator.

The unique design makes it possible to calibrate threaded sensors and sensors with connection heads without any problems



Intelligent Recalibration Information, IRI



To comply with ISO, SOP's and FDA it is imperative that calibration equipment never exceeds the expiration date found on the calibration certificate. The PTC checks the calibration information for the calibrator as well as any connected STS sensor. If the calibration period has expired, a warning will appear on the display. The feature helps prevent costly consequence evaluation.





Intuitive and fast navigation

Stability Status_

Shows information about the user selected stability criteria, the actual stability status, and estimations for when stability can be expected.

Reference Temperature_

Indicates if the internal or external reference sensor is used, the temperature of that sensor, and whether "Set Follows True" is active.

Sensor Under Test

Displays the type of sensor under test connected as well as its temperature.

Menu Bar_____

Shows the current function possibilities.









Keyboard __

With the keyboard you can navigate between functions and fill in desired settings such as set temperature, auto test temperature, and switch test temperature.

Informative Color Display and Easy Operation

The PTC's full color VGA display is very easy to read. The main temperature indications, like SET, READ, TRUE and SUT (Sensor Under Test), are always displayed at all stages of the programming or calibration procedure.

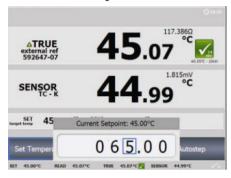
The navigation is very logical to use and the display indicates all important information needed for the current function.



Integrated functions

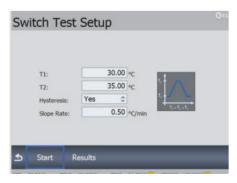
The PTC Series is a flexible calibrator with many integrated functions. Calibrations are completed in one of four ways.

Set Temperature Function



The fastest and simplest way of starting the calibrator. Simply press SET and type in the desired temperature by using the arrow keys.

Auto Switch Test



Switch test calibration is a perfect time saver. Start the switch calibration and come back to note the results after the test. You decide if you want the deadband value or not.

Work Order Calibration Mode



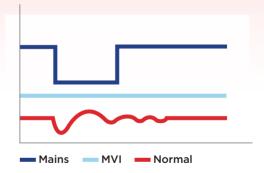
When using JofraCal, a calibration procedure can be downloaded into the PTC - transforming the PTC to a documenting calibrator. Optional function (U1).

Auto Stepping



In AUTOSTEP mode, you can program as many as 20 temperature steps including dwell times. Just start the sequence and the calibrator will complete the test.

MVI – Mains Power Variance
Immunity improves temperature
stability Unstable mains power supplies are a
major contributor to calibration inaccuracies. Traditional
temperature calibrators often become unstable in
industrial environments where large electrical motors,
heating elements, and other devices are periodically
cycled on and off. The cycling of supply power can
cause lower quality temperature regulators to perform
inconsistently, leading to both inaccurate readings and
unstable temperatures. The PTC series employ the MVI,
thus avoiding such stability problems. The MVI circuitry
continuously monitors the supply voltage and ensures a
constant energy flow to the heating elements.





Get even more



Calibration Software Included



The PTC is supplied with our highly recommended calibration software JofraCal.

All calibrations can be documented with a certificate, given that the PTC is controlled from a PC. When the calibrator has reached the desired temperature and stabillity it will prompt you to type in the DUT temperature. JofraCal documents all your calibration needs within temperature, pressure and process calibration.

Plug and Play Reference Sensors



All STS reference sensors are plug and play as they contain information in the connectors memory chip: Sensor coefficients • Unique serial number • Temperature range • Calibration date • Calibration interval

Calibrate up to 24 Sensors



Using the PTC together with the ASM, Advanced Signal Multi-scanner, offers a great time-saving automatic solution to calibrate multiple temperature sensors at a same time.

The ASM is an eight-channel scanner controlled by JofraCal on a PC. Up to 3 ASM's can be stacked to calibrate up to 24 sensors at a time.

Multi-hole Insert Kits



Two special multi-hole insert kits have been developed to comply with calibration of almost any sensor diameter without having to buy numerous inserts.

Easy to Carry

Users that frequently perform on-site calibrations will appreciate the focus on minimizing the weight of the PTC calibrator.

We have developed new design techniques that have made the PTC lightweight and easy to carry around without compromising its quality, durability and functionality.



All-in-one Carrying Case



The specially designed carrying case makes it possible to store the STS reference sensors in an optimum physical protection. There is room for inserts and insulation plugs to cover all dimensions and a compartment for wires, manuals, certificates, plugs, insert tools etc.





Temperature

Temperature Range

Temp. @ ambient 23°C / 73° F -25 to 155°C / -13 to 311°F

Accuracy

*PTC-155 with internal ref. sensor ±0.18°C /±0.32°F

APTC-155 with external STS-150 ref. sensor... ±0.06°C /±0.11°F

*Specification when using the internal reference. (Load 4 mm OD reference probe in the center of the insert)

 $^{\Delta}$ 12-month period. Relative to reference standard. Specifications by use of the external STS-150 reference sensor.

Stability

PTC-155.....±0.01°C/±0.018°F

Measured after the stability indicator has been on for 10 minutes. Measuring time is 30 minutes.

Radial Homogeneity (difference between holes)

Settings

 Resolution
 1 or 0.1 or 0.01

 Units
 °C or °F or K

Heating Time

PTC-155.....**-25 to 23°C / -13 to 73°F ... 4 minutes** PTC-155....**23 to 155°C / 73 to 311°F ... 12 minutes**

Cooling Time

Time to Stability (typical)

PTC-155......**10 minutes**

Mains Power

115 V (90-127) / 230 V (180-254)	Voltage
nption	Max Power Consum
veries 60 Hz ±5	Frequency, US delive
deliveries 50 Hz ±5, 60 Hz ±5	Frequency, non US o

Physical Specifications

Dimension L x W x H 362x171x363 mm / 14.3x6.7x14.3 in

Weight

PTC-155......**10.3 kg / 22.7 lb**

Immersion Depth incl. insulation plug

PTC-155..... 160 mm / 6.3 in

Well Diamete

PTC-155...... 26 mm / 1.02 in

Insert Dimensions (diameter x length)

PTC-155......**25.8 x 150 mm / 1.02 x 5.91 in**

Electrical

Switch Input (dry contact) B Model only

Digital Interface

USB 2.0

Environmental

Operating Temperature

0 to 40°C / 32 to 104°F

Storage Temperature

-20 to 50°C / -4 to 122°F

Humidity

0 to 90% Rh, non-condensing

Protection Class

IP-10



External Reference Sensor

STS-102-A.....-45 to 155°C /-49 to 311°F

Accuracy

Note: Stability when exposed to max, temperature for 100 hours

Sensing Element

Response Time

STS-102-A: t_{0.5} (50%) **5 sec.** STS-102-A: t_{0.6} (90%) ... **16 sec.**

Note: Liquid in motion, 0.4 m/sec

Dimensions

 Diameter
 4 mm / 0.157 in

 Length
 30 mm / 1.18 in

 Max. height over calibrator top
 20 mm / 0.79 in

External Reference Sensor

STS-150-A....-25 to 155°C /-13 to 311°F

Accuracy

 Hysteresis (@ 0°C / 32°F)
 .0.01°C / 0.018°F

 Long Term Stability (@ 0°C / 32°F)
 .0.014°C / 0.025°F

 Repeatability
 .0.004°C / 0.0072°F

Note: Stability when exposed to max. temperature for 100 hours

Sensing Element

TypePt100

Response Time

Dimensions

 STS-150-A: t_{0.5} (50%)
 7 sec.

 STS-150-A: t_{0.9} (90%)
 18 sec.

 Note: Liquid in motion, 0.4 m/sec

Note. Liquid III Motion, 0.4 m/s

 Diameter
 4 mm / 0.157 in

 Length
 180 mm / 7.08 in

 Cable length
 1 m / 3.28 ft





Temperature

Temperature Range

Temp. @ ambient 23°C / 73° F 33 to 350°C / 91 to 662°F

Accuracy

*Specification when using the internal reference. (Load 4 mm OD reference probe in the center of the insert)

^a12-month period. Relative to reference standard. Specifications by use of the external STS-150 reference sensor.

Stability

PTC-350.....±0.02°C/±0.036°F

Measured after the stability indicator has been on for 10 minutes. Measuring time is 30 minutes.

Radial Homogeneity (difference between holes)

Settings

 Resolution
 1 or 0.1 or 0.01

 Units
 °C or °F or K

Heating Time

PTC-350..... **33 to 350°C / 91 to 662°F** **7 minutes**

Cooling Time

PTC-350.......**350 to 100°C / 662 to 212°F ...12 minutes** PTC-350.......**100 to 50°C / 212 to 122°F ...12 minutes**

Time to Stability (typical)

PTC-350......**10 minutes**

Mains Power

Voltage	l 15 V (90-127) / 230 V (180-254)
Max Power Consumption	1150 W
Frequency, US deliveries	60 Hz ±3
Frequency non US deliveries	50 Hz +3, 60 Hz +3

Physical Specifications

Dimension L x W x H 362x171x363 mm / 14.3x6.7x14.3 in

Weight

PTC-350......**8.2 kg / 18.1 lb**

Immersion Depth incl. insulation plug

Well Diamete

Insert Dimensions (diameter x length)

PTC-350......**25,8 x 150 mm / 1.02 x 5.91 in**

Electrical

Switch Input (dry contact) B Model only

Digital Interface

USB 2.0

Environmental

Operating Temperature

0 to 40°C / 32 to 104°F

Storage Temperature

-20 to 50°C / -4 to 122°F

Humidity

0 to 90% Rh, non-condensing

Protection Class

IP-10

External Reference Sensor

STS-150-A..... 0 to 350°C /32 to 662°F

Accuracy

 Hysteresis (@ 0°C / 32°F)
 0.01°C / 0.018°F

 Long Term Stability (@ 0°C / 32°F)
 0.014°C / 0.025°F

 Repeatability
 0.004°C / 0.007°F

Note: Stability when exposed to max. temperature for 100 hours

Sensing Element

Response Time

Note: Liquid in motion, 0.4 m/sec

Dimensions

 Diameter
 4 mm / 0.157 in

 Length
 165 mm / 6.50 in

 Max. height over calibrator top
 20 mm / 0.79 in







Temperature

Accuracy

*PTC-425 with int. ref. sensor @ 33 to 350°C . ±0.20°C /±0.36°F *PTC-425 with int. ref. sensor @ 350 to 425°C ±0.25°C /±0.45°F ^PTC-425 with external STS-150 ref sensor +0.13°C /+0.23°F +0.13°C /+0.23°F

*Specification when using the internal reference. (Load 4 mm OD reference

probe in the center of the insert)

^Δ12-month period. Relative to reference standard. Specifications by use of the external STS-150 reference sensor.

Stability

PTC-425.....±0.02°C/±0.036°F

Measured after the stability indicator has been on for 10 minutes. Measuring time is 30 minutes.

Radial Homogeneity (difference between holes)

PTC-425......**0.02°C / 0.036°F**

Settinas

 Resolution
 1 or 0.1 or 0.01

 Units
 °C or °F or K

Heating Time

PTC-425..... 33 to 425°C / 91 to 797°F ...10 minutes

All specifications are given with an ambient temperature 23° C/73.4° F \pm 3° C/5.9° F. Specified at 115 V/230 V.

Cooling Time

PTC-425..........425 to 100°C / 797 to 212°F ...25 minutes PTC-425..........100 to 50°C / 212 to 122°F ...16 minutes

Time to Stability (typical)

PTC-425......**10 minutes**

Mains Power

115 V (90-127) / 230 V (180-254)	Voltage
1150 VA	Max Power Consumptio
60 Hz ±3	Frequency, US deliveries
50 Hz ±3, 60 Hz ±3	Frequency, non US deliv

Physical Specifications

Dimension L x W x H 362x171x363 mm / 14.3x6.7x14.3 in

Weight

PTC-425......9.2 kg / 20.3 lb

Immersion Depth

Well Diamete

Insert Dimensions (diameter x length)

PTC-425..... 25.8 x 155 mm / 1.02 x 6.1 in

Electrical

Switch Input (dry contact)

Digital Interface

USB 2.0

Environmental

Operating Temperature 0 to 40°C / 32 to 104°F

Storage Temperature

-20 to 50°C / -4 to 122°F

Humidity

0 to 90% Rh, non-condensing

Protection Class

IP-10

External Reference Sensor

STS-150-A..... 0 to 660°C / 32 to 1220°F

Accuracy

 Hysteresis (@ 0°C / 32°F)
 .0.01°C / 0.018°F

 Long Term Stability (@ 0°C / 32°F)
 0.014°C / 0.025°F

 Repeatability
 .0.004°C / 0.007°F

Note: Stability when exposed to max. temperature for 100 hours

Sensing Element

Response Time

Note: Liquid in motion, 0.4 m/sec

Dimensions

 Diameter
 4 mm / 0.157 in

 Length
 203 mm / 7.99 in

 Max. height over calibrator top
 38 mm / 1.50 in







Temperature

Accuracy

*PTC-660 with int. ref. sensor @ 33 to 420°C . ±0.30°C /±0.54°F

*PTC-660 with int. ref. sensor @ 420 to 660°C ±0.50°C /±0.54°F

 $^{\Delta}$ PTC-660 with external STS-150 ref. sensor. . . $\pm 0.15^{\circ}$ C / $\pm 0.27^{\circ}$ F

*Specification when using the internal reference. (Load 4 mm OD reference probe in the center of the insert)

^a12-month period. Relative to reference standard. Specifications by use of the external STS-150 reference sensor.

Stability

PTC-660.....±**0.04°C/±0.072°F**

Measured after the stability indicator has been on for 10 minutes. Measuring time is 30 minutes.

Radial Homogeneity (difference between holes)

Settings

 Resolution
 1 or 0.1 or 0.01

 Units
 °C or °F or K

Heating Time

PTC-660...... 33 to 660°C / 91 to 1220°F ...20 minutes

All specifications are given with an ambient temperature 23° C/73.4° F \pm 3° C/5.9° F. Specified at 115 V/230 V.

Cooling Time

Time to Stability (typical)

Mains Power

 Voltage
 115 V (90-127) / 230 V (180-254)

 Max Power Consumption
 1150 VA

 Frequency, US deliveries
 60 Hz ±3

 Frequency, non US deliveries
 50 Hz ±3, 60 Hz ±3

Physical Specifications

Dimension L x W x H 362x171x363 mm / 14.3x6.7x14.3 in

Weight

Immersion Depth

Well Diamete

Insert Dimensions (diameter x length)

PTC-660.....**24,8 x 160 mm / 0.98 x 6.30 in**

Electrical

Switch Input (dry contact)

Digital Interface

USB 2.0

Environmental

Operating Temperature 0 to 40°C / 32 to 104°F

Storage Temperature

-20 to 50°C / -4 to 122°F

Humidity

0 to 90% Rh, non-condensing

Protection Class

IP-10

External Reference Sensor

STS-150-A..... 0 to 660°C / 32 to 1220°F

Accuracy

 Hysteresis (@ 0°C / 32°F)
 0.01°C / 0.018°F

 Long Term Stability (@ 0°C / 32°F)
 0.014°C / 0.025°F

 Repeatability
 0.004°C / 0.007°F

Note: Stability when exposed to max. temperature for 100 hours

Sensing Element

Response Time

STS-150-A: t_{0.5} (50%) **8 sec.** STS-150-A: t_{0.6} (90%) **26 sec.**

Note: Liquid in motion, 0.4 m/sec

Dimensions

 Diameter
 4 mm / 0.157 in

 Length
 203 mm / 7.99 in

 Max. height over calibrator top
 25 mm / 0.94 in





Input Specifications



Accuracy

All input specifications apply to the dry block of the calibrator running at the respective temperature (stable + and additional 20 min. period).

Input specifications are not applicable to A models. Input specifications are valid for PTC-155/350/425/660.

RTD Reference Input (B & C models only)

RTD Type	Temperature		Accu	ıracy
	°C °F		°C	°F
Pt100 Reference	-25	-13	±0.014	±0.025
	0 32		±0.015	±0.027
	55	131	±0.017	±0.031
	100 212		±0.018	±0.032
	155	311	±0.020	±0.036
	350	662	±0.028	±0.051
	660	1220	±0.041	±0.074

^{*}Note: True ohm measurement is an effective method to eliminate errors from included thermo electrical voltage



RTD Sensor Under Test Input (B model only)

 F.S. (range)
 400 ohm

 Accuracy (12 months)
 ±(0.006% Rdg. + 0.002% F.S.)

 F.S. (range)
 4000 ohm

 Accuracy (12 months)
 ±(0.006% Rdg. + 0.005% F.S.)

 2-wire
 add 50 mOhm

RTD Type	Temperature		Accuracy	
	°C	°F	°C	°F
Pt1000 (90) 385	-25	-13	±0.07	±0.12
	0	32	±0.07	±0.12
	155	311	±0.08	±0.15
	350	662	±0.10	±0.18
	660	1220	±0.13	±0.23
Pt500 (90) 385	-25	-13	±0.12	±0.22
	0	32	±0.12	±0.22
	155	311	±0.14	±0.24
Optional	350		±0.16	±0.28
	660	1220	±0.20	±0.35
Pt100 (90) 385	-25	-13	±0.04	±0.06
	0	32	±0.04	±0.06
	155	311	±0.05	±0.08
	350	662	±0.06	±0.11
	660	1220	±0.08	±0.15

The PTC calibrator has as standard input for resistance sensors and curves such as: Pt100(90)391, Pt100(90)392, H120(90)672

The PTC can optionally be supplied with input for resistance sensors and curves suc as: Pt10(90)385, Pt50(90)385, Pt200(90)385, Pt50(90)385, Pt50(90)391, M50(90)428, M100(90)428, Pt100 Mill and YSi-400

Thermocouple Input

±78 mV	Range
78 mV	F.S. (Full scale)
±(0.02% Rdg. + 0.01% F.S.)	Accuracy

ктотуре	lemperature		Accuracy		
	°C	°F	°C	°F	
E	0	32	±0.14	±0.25	
	155	311	±0.14	±0.25	
	350	662	±0.17	±0.31	
	660	1220	±0.22	±0.40	
J	0	32	±0.17	±0.31	
	155	311	±0.17	±0.31	
	350	662	±0.23	±0.41	
	660	1220	±0.25	±0.45	
К	0	32	±0.22	±0.40	
	155	311	±0.22	±0.40	
	350	662	±0.26	±0.48	
	660	1220	±0.32	±0.57	
Т	0	32	±0.20	±0.36	
	155	311	±0.20	±0.36	
	350	662	±0.19	±0.35	
	400	752	±0.19	±0.35	
R	155	311	±1.56	±2.81	
	350	662	±0.83	±1.50	
	660	1220	±0.75	±1.36	
S	155	311	±1.56	±2.81	
	350	662	±0.92	±1.66	
	660	1220	±0.85	±1.53	
В	250	482	±3.17	±5.70	
	350	662	±2.42	±4.35	
	660	1220	±1.32	±2.37	
N	0	32	±0.30	±0.54	
	155	311	±0.30	±0.54	
	350	662	±0.29	±0.52	
	660	1220	±0.32	±0.57	
U	0	32	±0.20	±0.36	
	155	311	±0.18	±0.33	
	350	662	±0.19	±0.35	
	660	1220	±0.21	±0.37	

Temperature

*Excl. CJC accuracy ±0.35°C/±0.63°F

RTD Type



Inserts



Inserts for PTC-155 and PTC-350 are made of aluminum. Inserts for PTC-425 and PTC-660 are made of brass. All specifications on hole sizes refer to the outer diameter of the sensor-under-test. The correct clearance size is applied in all predrilled inserts.

Predrilled Inserts-metric (mm)

	Part Numbers				
Probe Dia.	Insert Code	PTC-155	PTC-350	PTC-425	PTC-660
3 mm	003	127937	127990	129722	128031
4 mm	004	127938	127991	129723	128032
5 mm	005	127939	127992	129724	128033
6 mm	006	127940	127993	129725	128034
7 mm	007	127941	127994	129726	128035
8 mm	008	127942	127995	129727	128036
9 mm	009	127943	127996	129728	128037
10 mm	010	127944	127997	129729	128038
11 mm	011	127945	127998	129730	128039
12 mm	012	127946	127999	129731	128040
13 mm	013	127947	128000	129732	128041
14 mm	014	127948	128001	129733	128042
15 mm	015	127949	128002	129734	128043
Package of the above inserts	SMM	127951	128004	129743	128045
Multi-hole 1	M01	127962	128015	129697	128056
Multi-hole 2	M02	127963	128016	129698	128057
Multi-hole 3	M03	127964	128017	129699	128058
Multi-hole 4	M04	127965	128018	129700	128059
Multi-hole 7	M07	127966	128019	129701	128060
Multi-hole 8	M08	127967	128020	129702	128061
Set of 4, 3 to 12 mm	SMX	127976	128022	129748	128067

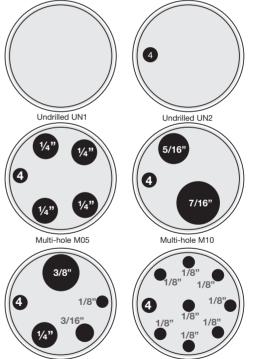
Predrilled Inserts-imperial (in)

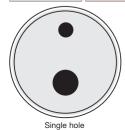
	Part Numbers					
Probe Dia.	Insert Code	PTC-155	PTC-350	PTC-425	PTC-660	
1/8 in	125	127952	128005	129735	128046	
3/16 in	187	127953	128006	129736	128047	
1/4 in	250	127954	128007	129737	128048	
5/16 in	312	127955	128008	129738	128049	
3/8 in	375	127956	128009	129739	128050	
7/16 in	437	127957	128010	129740	128051	
1/2 in	500	127958	128011	129741	128052	
9/16 in	562	127959	128012	129742	128053	
5/8 in	625	127960	128013	n/a	n/a	
Package of the above inserts	SIM	127961	128014	129744	128055	
Multi-hole 5	M05	127970	128023	129703	128063	
Multi-hole 6	M06	127972	128025	129704	128065	
Multi-hole 10	M10	127973	128026	129705	128066	
Multi-hole 11	M11	127971	128024	129706	128064	
Set of 3, 1/8 to 1/2 in	SIX	127977	128027	129749	128068	

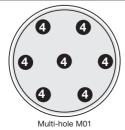
Use of other inserts may reduce performance of the calibrator. To get the best results out of the calibrator, the insert dimensions, tolerance and material is critical. We highly advise using Jofra inserts, as they guarantee trouble free operation.

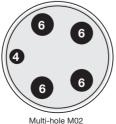
Undrilled Inserts

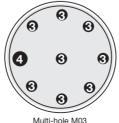
		Part Numbers				
ı	Inserts	Insert Code	PTC-155	PTC-350	PTC-425	PTC-660
	5-pack	UN1	127935	127988	129720	128029
	w/ref. hole	UN2	127936	128989	129721	128030
	Insul. plug		127969	n/a	n/a	n/a

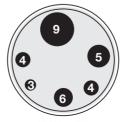




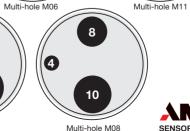










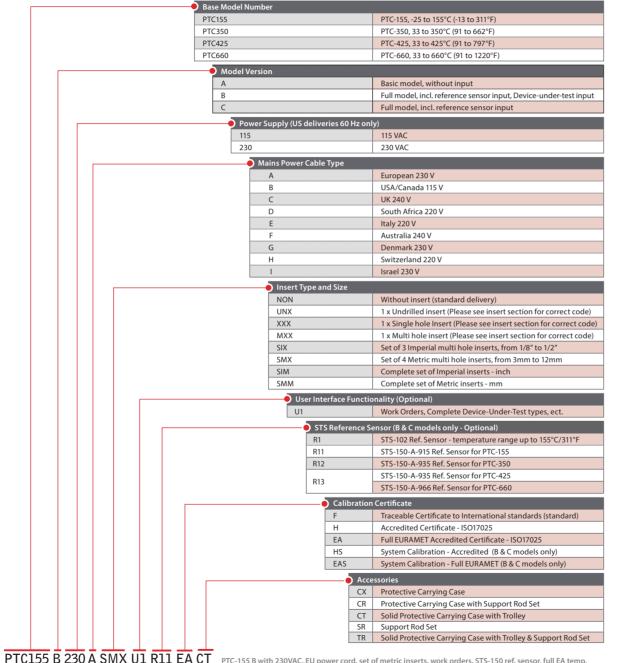


SENSORS, TEST & CALIBRATION

Multi-hole M03

Multi-hole M04

Ordering Information





Standard Delivery

- PTC dry-block calibrator (user specified)
- Mains power cable (user specified)
- Traceable certificate temperature performance
- Tool for insertion tubes
- USB containing manual and JofraCal
- USB cable
- PTC-660 includes a Heat Shield
- PTC-155 includes a set of rubber cones
- Model B extra items:

Test cables (2 x red, 2 x black)

Traceable certificate for reference input

Traceable certificate for DUT input

Model C - extra items:

Traceable certificate for reference input



Accessories

STS150A915EH.. Reference sensor for PTC-350

STS150A966EH. . Reference sensor for PTC-660 & PTC-425

STS102A030EH.. Reference sensor STS-102

125067..... Sensor grip

125066..... Fixture for sensor grip

129264..... Heat Shield

120516 Thermocouple Male Plug, type J, Black

120517 Thermocouple Male Plug, type K, Yellow

120514 Thermocouple Male Plug, type N, Orange

120515 Thermocouple Male Plug, type T, Blue

120518Thermocouple Male Plug, type R/S, Green

120519Thermocouple Male Plug, type Cu-Cu, White

Singapore

Tel +65 6484 2388

jofra@ametek.com

China, Shanghai

Tel +86 5868 5111

China, Beijing

stc.china@ametek.com

stc.china@ametek.com

Tel +86 10 8526 2111-ext. 19



EN ISO/IEC 17025 Laboratory accreditation

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Because calibration is a matter of confidence!

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

Tel +49 (0) 2159 9136 510

Denmark *

Tel +45 4816 8000 jofra@ametek.com

United Kingdom

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

France

Germany

info.mct-de@ametek.de

www.ametekcalibration.com



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USA, Florida

Tel +1 (800) 527 9999

cal.info@ametek.com

Tel +1 (800) 444 1850

crystal@ametek.com

Tel +91 22 2836 4750

jofra@ametek.com

USA, California *

India