temperature

JOFRA[®]

» Wide temperature range

ITC-155	-23 to 155°C / -9 to 311°F
ITC-320	33 to 320°C / 91 to 608°F
ITC-650	33 to 650°C / 91 to 1202°F

» Improved temperature homogeneity

The unique dual-zone heating block ensures good temperature homogeneity in the critical calibration zone of the heating block

» Enhanced accuracy and stability

MVI circuitry ensures temperature stability despite mains supply variations

» Timesaving features

Fast one-key-one-function access to the automatic switch test and the step function

» High accuracy and long-term stability

Specified drift over a one year period of time. Improves the reliability of the JOFRA ITC series

» Documentation made easy

RS232 communication and JOFRACAL calibration software are included in the standard delivery

Industrial Temperature Calibrator ITC-155/320/650



The JOFRA ITC series is the mid-range dry-block calibrator model offered by AMETEK. The design basis for the ITC series is portability and ease-of-use supplied at a reasonable cost without sacrificing accuracy, performance, and features.

The ITC series incorporates the features of the high-end ATC series with the functionality of the standard CTC series dry-block calibrators.

The ITC series employs the slim and rugged design of the CTC series. This series also features the intuitive user interface, the clear LCD display, and the functionality that is used in the successful CTC series.

However, the ITC is designed with the state-of-the-art dual-zone heating block and MVI circuitry that has been adopted from the ATC series. The MVI circuitry ensures stable temperatures even when the mains supply is unstable.

The ITC series is designed for both on-site and maintenance shop use. The applications are generally critical process control but can vary based on calibration and testing requirements.

The ITC series dry-block calibrators are available in 3 different temperature ranges and all models are equipped with RS232 serial communication capabilities. The standard delivery also includes the JOFRACAL calibration PC software.



Specification Sheet SS-ITC

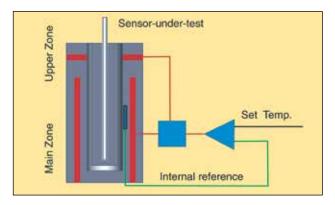




ITC-320 & ITC-650 dual-zone heating block

The specialized block design increases the temperature homogeneity in the critical calibration zone. It also minimizes the need to insulate the sensors-under-test and makes it possible to calibrate liquid-filled and other mechanical sensors.

The main, or lower, zone ensures optimum heat dissipation throughout the entire block. The secondary, or upper, zone compensates for the heat loss from the top of the block and from the sensor-under-test.

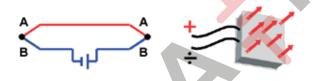


ITC-155 heating/cooling block

The model ITC-155 features improved Peltier elements that employ a "Multi-Stage Technology". This both improves efficiency and extends the useful life of the heating/cooling block.

Peltier effect (ITC-155)

In 1834, Jean Peltier, a French physicist found that an "opposite thermocouple effect" could be observed when an electric current was connected to a thermocouple. Heat would be absorbed at one of the junctions and discharged at the other junction. This effect is called the "PELTIER EFFECT".



The practical Peltier element (electronic heating pump) consists of many elements of semiconductor material connected electrically in series and thermally in parallel. These thermoelectric elements and their electrical interconnections are mounted between two ceramic plates. The plates serve to mechanically hold the overall structure together and to electrically insulate the individual elements from one another.

Maximum temperature

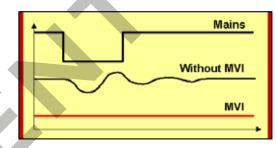
From the setup menu, the user can select the maximum temperature limit for the calibrator. This function prevents damage to the sensor-under-test caused by the application of excessive temperatures. The feature also aids in reducing drift resulting from extended periods of exposures to high temperatures. This feature can be locked with an access code.

MVI - Improved temperature stability

MVI stands for "Mains power Variance Immunity".

Unstable mains power supplies are a major contributor to on-site calibration inaccuracies. Traditional temperature calibrators often become unstable in production environments where large electrical motors, heating elements, and other devices are periodically cycled on or off. The cycling of supply power can cause the temperature regulator to perform inconsistently leading to both inaccurate readings and unstable temperatures.

The ITC 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.



Easy-to-use, intuitive operation

All instrument controls may be performed from the front panel. The heat source is positioned away from the panel. This design helps to protect the operator.

The main functions on the ITC series are designed with one-key-one-function logic. This means that there are no sub-menus or difficult to remember multiple keystrokes necessary to access primary functions.

The easy-to-read, backlit display features dedicated icons, which help in identifying instrument conditions and operational steps.





Set temperature

The "Up" and "Down" arrow keys allow the user to set the exact temperature desired with a resolution of 0.1° .

Instrument setups

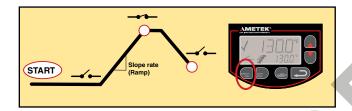
The ITC series stores the complete instrument setup, including: engineering units, stability criteria, resolution, display contrast, slope (ramp) rate, auto-step settings, and maximum temperature.

Stability indicator

A bold checkmark on the display indicates that the calibrator has reached the desired set temperature and is stable. The operator may change the stability criteria and establish a greater sense of security in the calibration results. A convenient countdown timer is activated five minutes before the unit reaches stability.

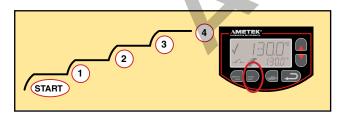
Automatic switch test

Operators can save a lot of time using the automatic thermoswitch test function to find values for the "Open" and "Close" temperatures. Additionally, this feature displays the hysteresis (deadband) between the two points. The feature ensures a very high repeatability when testing thermoswitches. Simply press the "SWITCH TEST" key to activate the function.



Auto-stepping

This feature saves manpower. The operator may stay in the control room, or another remote location, monitoring the output from the sensor-under-test while the ITC series calibrator is placed in the process and automatically changes the temperature using a programmed step value and rate. Up to 9 different temperature steps may be programmed, including the hold time for each step.



Re-calibration/adjustments

The ITC series has a very easy and straightforward procedure for re-calibration/adjustment. There is no need for a screwdriver or PC software. The only thing you need is a reliable reference thermometer.

Place the probe in the calibrator and follow the instructions on the display. Third-party labs and calibration facilities will be able to perform this function if a certificate from an independent source is necessary. Of course, AMETEK can provide you with a traceable calibration certificate from our labs when you require a higher level of confidence.

Calibration of up to 24 sensors with JOFRA ASM

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

The ASM series is an eight channel scanner controlled by JOFRACAL software on a PC. Up to 3 ASM units can be stacked to calibrate up to 24 sensors at the same time. It can handle signals from 2-, 3- and 4 wire RTD's, TC's, transmitters, thermisters, temperature switches and voltage.

Please also see more in specification sheet SS-CP-2360, which can be found at www.jofra.com





JOFRACAL CALIBRATION SOFTWARE

JOFRACAL calibration software ensures easy calibration of RTD's, thermocouples, transmitters, thermoswithes, pressure gauges and pressure switches. JOFRACAL can be used with all JOFRA calibration instruments. When used with ASM-800 signal multi scanner, JOFRACAL can perform a simultaneous semi automatic calibration on up to 24 pressure and/or temperature devices under test in any combination.

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JOFRACAL software controls the complete calibration procedure, stores the results and provides a calibration audit trail through hard-copy certificates. All calibration data are stored for each sensor to monitor drift and optimise recalibration intervals. A scheduler feature allows planning of future calibrations.

JOFRACAL software

Minimum hardware requirements for JOFRACAL calibration software.

- INTEL[™] 486 processor
- (PENTIUM[™] 800 MHz recommended)
- 32 MB RAM (64 MB recommended)
- 80 MB free disk space on hard disk prior to installation
- Standard VGA (800 x 600, 16 colors) compatible screen
- (1024 x 786, 256 colors recommended)
- CD-ROM drive for installation of the program
- 1 free RS232 serial port

STANDARD DELIVERY

- ITC dry-block calibrator (user specified)
- Mains power cable (user specified)
- Traceable certificate temperature performance
- Insert (user specified)
- 3 pcs. insulation plugs for 5, 8, 11 mm sensors (ITC-155 only)
- Tool for insertion tubes
- RS232 cable
- JOFRACAL calibration software
- User manual
- Reference manual (English)
- Test cables (1 x red, 1 x black)

ACCESSORIES

- 122832 Cleaning Brushes 4 mm Package of 3 pcs 60F174 Cleaning Brushes - 6 mm - Package of 3 pcs
- 122822 Cleaning Brushes 8 mm Package of 3 pcs
- 123374 Set of 3 pcs of insulation plugs / 4 mm ref. hole * 5, 8 and 11 mm / 0.2, 0.31 and 0.43 in. (ITC-155 A only)
- 125510 Set of 3 pcs of insulation plugs / 1/4 in ref. hole * 5, 8 and 11 mm / 0.2, 0.31 and 0.43 in. (ITC-155 A only)
- 125068 Support rod set for sensors, 2 gribs, 2 fixtures * Support rod set can be mounted on all JOFRA dry-blocks
- 125066 Extra fixture for sensor grib
- 125067 Extra sensor grib
- 125002 Edge port Converter with 4 pcs of RS232 ports
- 123396 Carrying Case for ITC Series

Carrying case (Optional) - 123396

The optional protective carrying case ensures safe transportation and storage of the instrument and all associated equipment.



Heat shield (Optional) - 104216

An external heat shield is available and may be placed on top of the calibrator to reduce the hot air stream around the sensor-undertest. This is especially important for testing thermocouples having headmounted transmitters with coldjunction compensation.

Support rod set (Optional) - 125068

Support rod for sensors to be mounted on all JOFRA dry-block calibrators. Holds the sensor under test in their position, while calibrating. Includes 2 sensors grips and 2 fixtures for sensor gribs.







FUNCTIONAL SPECIFICATIONS

Mains specifications

Voltage ITC-155/320 A 115V(90-127) / 230V(180-254)
Voltage ITC-650 A 115V(100-127) / 230V(200-254)
Frequency, non US deliveries50 Hz ±5, 60 Hz ±5
Frequency, US deliveries60 Hz ±5
Power consumption (max) ITC-155 A150 VA
Power consumption (max) ITC-320/650 A 1150 VA

Temperature range

ITC-155 A

Maximum	155°C / 311°F
Minimum @ ambient temp.	0°C / 32°F39°C / -38°F
Minimum @ ambient temp. 2	23°C / 73°F23°C / -9°F
Minimum @ ambient temp. 4	40°C / 104°F10°C / 14°F

ITC-320 A	33 to 320°C / 91 to 608°F
ITC-650 A	33 to 650°C / 91 to 1202°F

Resolution (user-selectable)

All temperatures 1	1° or 0.1°
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Stability - NEW ¹⁾

ITC-155 A	±0.01°C / ±0.02°F
ITC-320 A	±0.02°C / ±0.04°F
ITC-650 A	±0.04°C / ±0.07°F
Measured after the stability indicator has Measuring time is 30 minutes.	been on for 10 minutes.

Time to stability (approximate)

All models	10 minutes
Accuracy - NEW ¹⁾	
ITC-155 A	±0.18°C / ±0.32°F
ITC 220 A	+0.25°C / +0.45°E

110-320 A	±0.25 C / ±0.45 F
ITC-650 A	±0.45°C / ±0.81°F
12 month period. Specification by use	

Radial homogeneity (difference between holes) - NEW¹

ITC-155 A	0.02°C / 0.04°F
ITC-320 A	
ITC-650 A	0.1°C / 0.18°F

Immersion depth

ITC-155 A	
ITC-320 A / ITC-650 A	

Well diameter

ITC-155 A	
ITC-320/ITC-650 A	30 mm / 1.18 in

Heating time

ITC-155 A	-20 to 23°C / -4 to 73°F	4 minutes
	23 to 155°C / 73 to 311°F	14 minutes
	-20 to 155°C / -4 to 311°F	18 minutes
ITC-320 A	50 to 320°C / 122 to 608°F	7 minutes
ITC-650 A	50 to 650°C / 122 to 1202°F	

1) Improved specifications from January 1, 2008

Cooling time

-	
	$\begin{array}{l} 155 \ to \ 100^\circ C \ / \ 311 \ to \ 212^\circ F \ \ 4 \ minutes \\ 155 \ to \ 23^\circ C \ / \ 311 \ to \ 73^\circ F \ \ 14 \ minutes \\ 23 \ to \ -20^\circ C \ / \ 73 \ to \ -4^\circ F \ \ 23 \ minutes \\ 155 \ to \ -20^\circ C \ / \ 311 \ to \ -4^\circ F \ \ 37 \ minutes \\ \end{array}$
	320 to 100°C / 608 to 212°F 30 minutes 320 to 50°C / 608 to 122°F 60 minutes
	650 to 100°C / 1202 to 212°F 56 minutes 650 to 50°C / 1202 to 122°F 95 minutes
Switch inp	ut (dry contact)

PHYSICAL SPECIFICATIONS

Instrument dimensions

L x W x H	241 x 139) x 375 mm / 9.	5 x 5.5 x 14.8 in
Instrument we	ight		
ITC-155 A			.7.6 kg / 16.8 lb
ITC-320 A			.6.5 kg / 14.3 lb

110 020 /	
ITC-650 A	8.5 kg / 18.7 lb

Insert dimensions

Inner diameter	19,9 mm / 0.78 in 16,9 mm / 0.67 in 150 mm / 5.91 in
Inner diameter (sing	29,7 mm / 1.17 in Iti hole) . 25,9 mm / 1.02 in gle hole) 22,0 mm / 0.87 in 160 mm / 6.30 in
Weight of non-drilled insert (app	proximate)
ITC-155 A ITC-320/650 A	
Shipping (including optional car	rying case)
Weight: ITC-155 A Weight: ITC-320 A Weight: ITC-650 A Size: L x W x H490 x 220 x 405	13.7 kg / 30.2 lb 15.7 kg / 34.6 lb
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Shipping (without carrying case)

Weight: ITC-155 A	11.0 kg / 24.3 lb
Weight: ITC-320 A	10.7 kg / 23.6 lb
Weight: ITC-650 A	12.7 kg / 28.0 lb
Size: L x W x H., 460 x 216 x 405 r	nm / 18.1 x 8.5 x 15.9 in

Shipping (carrying case only)

Weight:	5.0 kg / 11 lb
Size: L x W x H 490 x 220 x 405 n	nm / 19.3 x 8.7 x 15.9 in

Miscellaneous

Serial data interface	
Operating temperature	0 to 40°C / 32 to 104°F
	20 to 60°C / -4 to 140°F
	0 to 90% RH
-	IP-10



PREDRILLED INSERTS FOR ITC SERIES - 4 MM REFERENCE HOLE

JOFRA dry-block insert compatibility and materials: ATC-320 = ATC-650 = ITC-320 = ITC-650 (made of brass) ATC-155 = ATC-156 (made of aluminum) ATC-157 = ITC-155 (made of aluminum) ATC-140 = ATC-250 (made of aluminum)

Probe diameter	Insert code ¹	ITC-155 A	ITC-320/650 A
3 mm	003	123270	105622
4 mm	004	123271	105624
5 mm	005	123272	105626
6 mm	006	123273	105628
7 mm	007	123274	105630
8 mm	008	123275	105632
9 mm	009	123276	105634
10 mm	010	123277	105636
11 mm	011	123278	105638
12 mm	012	123299 <mark>2</mark>	105640
13 mm	013	123300 <mark>2</mark>	105642
14 mm	014	N/A	105644
15 mm	015	N/A	105646
16 mm	016	N/A	105648
Package of the above inserts	-	124699	124701
Set of insulation plugs	-	123374	N/A

All specifications on hole sizes are referring to the outer diameter of the sensor-under-test. The correct clearance size is applied in all predrilled inserts.

Probe diameter	Insert code ¹	ITC-155 A	ITC-320/650 A
1/8 in	125	123279	105676
3/16 in	187	123280	105678
1/4 in	250	123281	105680
5/16 in	312	123282	105682
3/8 in	375	123283	105684
7/16 in	437	123301 <mark>2</mark>	105686
1/2 in	500	123302 <mark>2</mark>	105688
9/16 in	562	N/A	105690
5/8 in	625	N/A	105692
Package of the above inserts	-	124700	124702
Set of insulation plugs	-	123374	N/A

Note: All inserts (metric and inches) are supplied with a hole for the 4 mm OD reference probe.

4 mm OD reference probe.
Note: All inserts (metric and inches) for ITC-155 are supplied with a matching insulation plug.
Note 1: Use the insert code, when ordered as the standard insert together with a new calibrator.
Note 2: ITC-155 12 mm, 13 mm, 7/16 in and 1/2 in inserts are delivered without the 4 mm reference hole, but supplied with a matching insulation. insulation plug.

PREDRILLED INSERTS FOR ITC SERIES - 1/4 IN (6.35 mm) REFERENCE HOLE

Probe diameter	Insert code ¹	ITC-155 A	ITC-320/650 A
3 mm	803	125290	125259
4 mm	804	125291	125261
5 mm	805	125292	125263
6 mm	806	125293	125265
7 mm	807	125294	125267
8 mm	808	125295	125269
9 mm	809	N/A	125271
10 mm	810	N/A	125273
11 mm	811	N/A	125277
12 mm	812	123299 <mark>2</mark>	125279
13 mm	813	123300 ²	125281
14 mm	814	N/A	125283
15 mm	815	N/A	125285
Package of the above inserts	-	125387	125388
Set of insulation plugs	-	125510	N/A

Probe diameter Insert code ITC-320/650 A ITC-155 A 1/8 in 901 125314 125296 3/16 in 902 125315 125298 1/4 in 903 125316 125300 5/16 in 904 125317 125303 3/8 in 905 N/A 125305 7/16 in 906 123301 ² 125307 1/2 in 907 123302 2 125309 9/16 in 908 N/A 125311 Package of the above _ 125390 125391 inserts Set of insulation plugs 125510 N/A -

Note: All inserts (metric and inches) are supplied with a hole for the 1/4 in OD reference probe

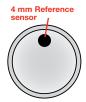
All inserts (metric and inches) for ITC-155 are supplied with Note: a matching insulation plug. Use the insert code, when ordered as the standard insert

Note 1: together with a new calibrator.

ITC-155: 12 mm, 13 mm, 7/16 in and 1/2 in inserts are delivered Note 2: without the 1/4 in reference hole, but supplied with a matching insulation plug.

UNDRILLED INSERTS FOR ITC SERIES

Inserts	ITC-155 A	ITC-320/650 A
5-pack, undrilled inserts	123286	122719
5-pack, undrilled inserts with a 4 mm hole for the reference probe	123285	122721
5-pack, undrilled inserts with a 1/4 in hole for the reference probe	125313	125287
One undrilled insert	N/A	N/A
Undrilled insulation plug	123304	N/A







MULTI-HOLE INSERTS FOR ITC SERIES - METRIC (MM)

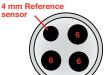
Spare part no. for multi-hole inserts - metric (mm)			
Insert code ¹	ITC-155 A	ITC-320/650 A	
M01	123294	122750	
M02	123295	122752	
M03	123296	122754	
M04	N/A	122756	
M06	125377	N/A	
M07	125378	N/A	
M08	125379	N/A	

Note: Note:

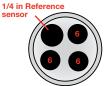
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All multi-hole inserts (metric and inches) for ITC-155 are supplied with a matching insulation plug. Remember to use matching insulation plugs.

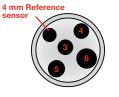
Note 1: Use the insert code, when ordered as the standard insert together with a new calibrator.



Multi-hole M01 (ITC-155 A)



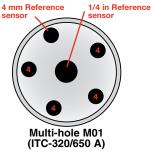
Multi-hole M06 (ITC-155 A)



Multi-hole M02 (ITC-155 A)



Multi-hole M07 (ITC-155 A)

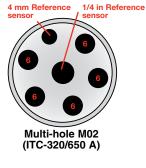


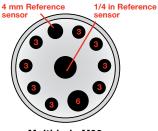
4 mm Reference

Multi-hole M03 (ITC-155 A)



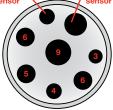
Multi-hole M08 (ITC-155 A)





Multi-hole M03 (ITC-320/650 A)

4 mm Reference sensor 1/4 in Reference sensor



Multi-hole M04 (ITC-320/650 A)

Multi-hole M06

(ITC-320/650 A)

4 mm Reference

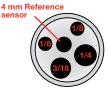
MULTI-HOLE INSERTS FOR ITC SERIES - IMPERIAL (INCH)

Spare part no. for multi-hole inserts - imperial (inch)			
Insert code ¹	ITC-155 A	ITC-320/650 A	
M02	N/A	N/A	
M04	123297	N/A	
M05	123298	122758	
M06	N/A	122760	
M09	125380	N/A	

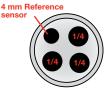
All multi-hole inserts (metric and inches) for ITC-155 Note: are supplied with a matching insulation plug.

Note: Remember to use matching insulation plugs Note 1:

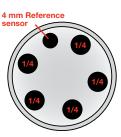
Use the insert code, when ordered as the standard insert together with a new calibrator.



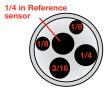
Multi-hole M04 (ITC-155 A)



Multi-hole M05 (ITC-155 A)



Multi-hole M05 (ITC-320/650 A)



Multi-hole M09 (ITC-155 A)

ORDERING INFORMATION

Order number	Description Base model number
ITC155A ITC320A ITC650A	ITC-155 series, -23 to 155°C (-9 to 311°F) ITC-320 series, 50 to 320°C (122 to 608°F) ITC-650 series, 50 to 650°C (122 to 1202°F)
115 230	Power supply (US deliveries 60 Hz only) 115VAC 230VAC
A B C D E F G H I	Mains power cable type European, 230V USA/CANADA, 115V UK, 240V South Africa, 220V Italy, 220V Australia, 240V Denmark, 230V Switzerland, 220V Israel, 230V
xxx	Insert type and size 1 x Insert for dry-block configuration (please see the previous insert pages for the right insert codes)
	 Calibration certificate Traceable calibration certificate (standard for Europe, Asia, Australia and Africa) G NIST traceable calibration certificate (standard for Western Hemisphere) H Accredited calibration certificate
	Options C Carrying case X No option used

ITC320A115BM06CGXX

Sample order number

JOFRA ITC-320 A dry-block calibrator, 115VAC power with US power cord and predrilled multi-hole insert type 6 including carrying case and NIST traceable certificate.

AMETEK Test & Calibration Instruments

A business unit of AMETEK Measurement & Calibration Technologies Division offering the following industry leading brands for test and calibration instrumentation.

JOFRA Calibration Instruments Temperature Calibrators

Portable dry-block calibrators, precision thermometers and liquid baths. Temperature ranges from -90°C(-130°F) to 1205°C(2200°F). Temperature sensors for industrial and marine use. Pressure Calibrators

Convenient electronic systems ranging from -25 mbar to 1000 bar - fully temperature-compensated for problemfree and accurate field use. *Signal Instruments*

Process signal measurement and simulation for easy control loop calibration and measurement tasks.

M&G Pressure Testers & Pumps

Pneumatic floating-ball or hydraulic piston dead weight testers with accuracies to 0.015% of reading. Pressure generators delivering up to 1,000 bar.

Lloyd Instruments

Materials testing machines and software from Lloyd Instruments guarantees expert materials testing solutions. The comprehensive program also covers Texture Analysers to perform rapid, general food testing and detailed texture analysis on a diverse range of foods and cosmetics.

Davenport Polymer Test Equipment

Allows measurement and characterization of moisturesensitive PET polymers and polymer density.

Chatillon Force Measurement

The hand held force gauges and motorized testers have earned their reputation for quality, reliability and accuracy and they represent the de facto standard for force measurement.

Newage Testing Instruments

Hardness testers, durometers, optical systems and software for data acquisition and analysis.

www.jofra.com

Singapore AMETEK Singapore Pte Ltd Tel +65 6484 2388 jofra@ametek.com

China AMETEK Inc. - Shanghai Tel +86 21 5868 5111

AMETEK Inc. - Beijing Tel +86 10 8526 2111

sales@a-rent.com

AMETEK Inc. - Guangzhou Tel +86 20 8363 4768 jofra.sales@ametek.com.cn

TEST & CALIBRATION INSTRUMENTS

UK

AMETEK Calibration Instruments Tel +44 (0)1243 833 302 jofra@ametek.co.uk

France

AMETEK S.A.S. Tel +33 (0)1 30 68 89 40 general.lloyd-instruments@ametek.fr

Germany

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

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Denmark AMETEK Denmark Tel +45 4816 8000 jofra@ametek.com

USA AMETEK Mansfield & Green Tel +1 (800) 527 9999 cal.info@ametek.com

India AMETEK Instruments India Pvt Ltd. Tel +91 22 2836 4750 jofra@ametek.com

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(IL) 630.748.8900 (TX) 713.564.8900