

Advantages

- High Accuracy and Stability
- Fast Calibration
- Easy to Carry
- Intuitive Operation
- Two Year Warranty
- [Free Calibration Software](#)
- Innovative Patented Technology
- [Dynamic Load Compensation](#)
- [Accredited Certificates](#) (Optional)
- Plug & Play Reference Sensors
- [Application Specific Inserts](#)
- High Profile Design

	Internal Accuracy (°C)	External Accuracy (°C)	Stability (°C)	Resolution (°C)	Type	Insert Diameter (mm)	Immersion Depth (mm)	External Ref. Sensor	Sensor Under Test Input	Dynamic Load Compensation	Sanitary Sensor Calibration	Set Follows True	Autotest	Switch Test	Patented Technology	
-100°C	0.30	0.06	0.030	0.001	Dry	29.7	190	✓	✓	✓		✓	✓	✓	X,Y	RTC-159
-90°C	0.30	0.07	0.030	0.01	Dry	29.7	190	✓	✓			✓	✓	✓	X	PTC-125
-45°C	0.10	0.04	0.005	0.001	Dry	29.7	160	✓	✓	✓		✓	✓	✓	Y	RTC-187
-45°C	0.10	0.04	0.005	0.001	Dry	29.7	160	✓	✓	✓		✓	✓	✓	Y	RTC-157
-30°C	0.10	0.04	0.005	0.001	Dry	29.7	160	✓	✓		✓	✓	✓	✓	Y	RTC-156
-25°C	0.18	0.06	0.010	0.01	Dry	25.8	160	✓	✓			✓	✓	✓		PTC-155
-22°C	0.18	0.04	0.010	0.001	Dry/Wet	63.5	180	✓	✓	✓		✓	✓	✓	Y	RTC-158
-30°C	0.14	0.045	0.010	0.001	Dry/Wet	63.5	180	✓	✓	✓		✓	✓	✓	Y	RTC-168
-25°C	0.30	0.20	0.040	0.1	Dry	25.8	120	✓			✓	✓	✓	✓		CTC-155
-10°C	0.50	-	0.050	0.1	Dry	12.5	110						✓			ETC-125
Temperature Range	Specifications							Functions								Model

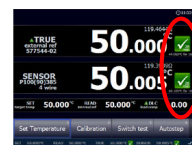
	Internal Accuracy (°C)	External Accuracy (°C)	Stability (°C)	Resolution (°C)	Type	Insert Diameter (mm)	Immersion Depth (mm)	External Ref. Sensor	Sensor Under Test Input	Dynamic Load Compensation	Set Follows True	Autotest	Switch Test	Mains Variance Immunity	Patented Technology	
28°C	0.28	0.07	0.020	0.001	Dry/Wet	63.5	180	✓	✓	✓		✓	✓	✓	Y	RTC-250
28°C	0.45	0.25	0.050	0.01	Dry	25.7	110	✓			✓	✓	✓	✓		CTC-350A
33°C	0.20	0.08	0.020	0.01	Dry	25.8	140	✓	✓		✓	✓	✓	✓	Z	PTC-350
33°C	± 0.20 / 0.25	0.13	0.020	0.01	Dry	25.8	150	✓	✓		✓	✓	✓	✓	Z	PTC-425
28°C	0.50	-	0.150	0.1	Dry	Fixed	105					✓				ETC-400
28°C	0.50	-	0.300	0.1	Dry	36.0	-					✓				ETC-400R
28°C	0.85	0.45	0.080	0.01	Dry	25.7	110	✓			✓	✓	✓	✓		CTC-660A
28°C	0.65	0.45	0.050	0.01	Dry	25.7	190	✓			✓	✓	✓	✓		CTC-652
33°C	0.30	0.15	0.040	0.01	Dry	24.8	150	✓	✓		✓	✓	✓	✓	Z	PTC-660
33°C	0.29	0.11	0.020	0.001	Dry	29.8	200	✓	✓	✓	✓	✓	✓	✓	Y,Z	RTC-700
100°C	2.00	2.00	0.100	0.01	Dry	27.0	137	✓			✓	✓	✓	✓		CTC-1205
Temperature Range	Specifications							Functions								Model

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



Dynamic Load Compensation

DLC function makes the homogeneity independent of the different loads of the insert. The DLC sensor improves the homogeneity even more by controlling the homogeneity not only in the well, but also inside the insert, where the sensors-under-test are placed during calibration.



Free calibration software

JOFRACAL is our highly versatile calibration software that is supplied with the calibrator. The software ensures easy calibration of various temperature sensors, such as RTD's, thermocouples, transmitters and thermo switches. It integrates with all our calibration instruments.

Sanitary Sensor Calibration — RTC-168 and RTC-156

Most of the temperature sensors used for measurement within the food industry have to be approved for sanitary applications. Therefore, the temperature sensors have been designed in such a way that only a minimal number of germs or contaminants can conceal themselves on the sensors. Unfortunately, a side effect of these designs is that the sensors cannot be calibrated in a standard calibrator. The RTC-156 and especially the RTC-168 overcomes that problem by using a special designed clamp insert together with our short and flexible STS-102 reference sensor.



MVI - Mains Variance Immunity

The cycling of supply power can cause the temperature regulator to perform inconsistently, leading to both inaccurate readings and unstable temperatures. Our MVI system eliminates errors from unstable mains power.

Patented Technology

- X) The cooling/heating technology used in our ultra coolers makes it possible to cover a very broad temperature range from -100 to 155°C.
- Y) The DLC technology increases the temperature homogeneity and documents it in the display.
- Z) The cooling speed of our heater calibrators for the RTC and PTC Series, is improved by using a special insulation.

Advantages

- High Accuracy and Stability
- Fast Calibration
- Easy to Carry
- Intuitive Operation
- Two Year Warranty
- [Free Calibration Software](#)
- Innovative Patented Technology
- [Dynamic Load Compensation](#)
- [Accredited Certificates](#) (Optional)
- Plug & Play Reference Sensors
- [Application Specific Inserts](#)
- High Profile Design

Temperature Range	Internal Accuracy (°F)	External Accuracy (°F)	Stability (°F)	Resolution (°F)	Type	Insert Diameter (in)	Immersion Depth (in)	External Ref. Sensor	Sensor Under Test Input	Dynamic Load Compensation	Sanitary Sensor Calibration	Set Follows True	Autotest	Switch Test	Patented Technology	Model
-148°F 311°F	0.54	0.11	0.054	0.001	Dry	1.17	7.48	✓	✓	✓		✓	✓	✓	X,Y	RTC-159
-130°F 257°F	0.54	0.13	0.054	0.01	Dry	1.17	7.48	✓	✓			✓	✓	✓	X	PTC-125
-49°F 356°F	0.18	0.07	0.009	0.001	Dry	1.17	6.30	✓	✓	✓		✓	✓	✓	Y	RTC-187
-49°F 311°F	0.18	0.07	0.009	0.001	Dry	1.17	6.30	✓	✓	✓		✓	✓	✓	Y	RTC-157
-22°F 311°F	0.18	0.07	0.009	0.001	Dry	1.17	6.30	✓	✓		✓	✓	✓	✓	Y	RTC-156
-13°F 311°F	0.32	0.11	0.018	0.01	Dry	1.02	6.30	✓	✓		✓	✓	✓	✓		PTC-155
-8°F 311°F	0.32	0.07	0.018	0.001	Dry/Wet	2.50	7.09	✓	✓	✓		✓	✓	✓	Y	RTC-158
-22°F 329°F	0.25	0.081	0.018	0.001	Dry/Wet	2.50	7.09	✓	✓	✓	✓	✓	✓	✓	Y	RTC-168
-13°F 311°F	0.54	0.36	0.070	0.01	Dry	1.02	4.53	✓			✓	✓	✓	✓		CTC-155
14°F 257°F	0.90	-	0.090	0.1	Dry	0.50	4.33						✓			ETC-125
Specifications	Functions															Model

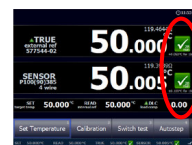
Temperature Range	Internal Accuracy (°F)	External Accuracy (°F)	Stability (°F)	Resolution (°F)	Type	Insert Diameter (in)	Immersion Depth (in)	External Ref. Sensor	Sensor Under Test Input	Dynamic Load Compensation	Set Follows True	Autotest	Switch Test	Mains Variance Immunity	Patented Technology	Model
82°F 482°F	0.50	0.13	0.036	0.001	Dry/Wet	2.50	7.09	✓	✓	✓		✓	✓	✓	Y	RTC-250
82°F 662°F	0.81	0.45	0.090	0.01	Dry	1.01	4.33	✓			✓	✓	✓	✓		CTC-350A
91°F 662°F	0.36	0.15	0.036	0.01	Dry	1.02	5.51	✓	✓		✓	✓	✓	✓	Z	PTC-350
91°F 797°F	± 0.36 / 0.45	0.23	0.036	0.01	Dry	1.02	5.91	✓	✓		✓	✓	✓	✓	Z	PTC-425
82°F 752°F	0.90	-	0.270	0.1	Dry	Fixed	4.13					✓				ETC-400
82°F INFEREAD 752°F	0.90	-	0.540	0.1	Dry	1.42	-					✓				ETC-400R
82°F 1220°F	1.53	0.81	0.140	0.01	Dry	1.01	4.33	✓			✓	✓	✓	✓		CTC-660A
82°F 1202°F	1.17	0.81	0.090	0.01	Dry	1.01	7.48	✓			✓	✓	✓	✓		CTC-652
91°F 1220°F	0.54	0.27	0.072	0.01	Dry	0.98	5.91	✓	✓		✓	✓	✓	✓	Z	PTC-660
91°F 1292°F	0.52	0.20	0.036	0.001	Dry	1.17	7.87	✓	✓	✓	✓	✓	✓	✓	Y,Z	RTC-700
212°F 2201°F	3.60	3.60	0.180	0.01	Dry	1.06	5.39	✓			✓	✓	✓	✓		CTC-1205
Specifications	Functions															Model

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



Dynamic Load Compensation

DLC function makes the homogeneity independent of the different loads of the insert. The DLC sensor improves the homogeneity even more by controlling the homogeneity not only in the well, but also inside the insert, where the sensors-under-test are placed during calibration.



Free calibration software

JOFRACAL is our highly versatile calibration software that is supplied with the calibrator. The software ensures easy calibration of various temperature sensors, such as RTD's, thermocouples, transmitters and thermo switches. It integrates with all our calibration instruments.

Sanitary Sensor Calibration — RTC-168 and RTC-156

Most of the temperature sensors used for measurement within the food industry have to be approved for sanitary applications. Therefore, the temperature sensors have been designed in such a way that only a minimal number of germs or contaminants can conceal themselves on the sensors. Unfortunately, a side effect of these designs is that the sensors cannot be calibrated in a standard calibrator. The RTC-156 and especially the RTC-168 overcomes that problem by using a special designed clamp insert together with our short and flexible STS-102 reference sensor.



MVI - Mains Variance Immunity

The cycling of supply power can cause the temperature regulator to perform inconsistently, leading to both inaccurate readings and unstable temperatures. Our MVI system eliminates errors from unstable mains power.

Patented Technology

- X) The cooling/heating technology used in our ultra coolers makes it possible to cover a very broad temperature range from -100 to 155°C.
- Y) The DLC technology increases the temperature homogeneity and documents it in the display.
- Z) The cooling speed of our heater calibrators for the RTC and PTC Series, is improved by using a special insulation.