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AMETEK Sensors, Test & Calibration is one of the world's leading manufacturers and developers of calibration instruments for temperature, pressure and process signals as well as for temperature sensors both from a commercial and a technological point of view. Our dry-block and liquid bath temperature calibrators include 6 series with more than 25 models and temperature ranges from -100 to 1205°C. All feature portability, accuracy, speed, and advanced documenting functions with JofraCal calibration software. Our calibrators include the smallest and coldest dry-block temperature calibrator available.



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Reference Temperature Calibrator

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Professional Temperature Calibrator

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RTC

Reference Temperature Calibrator

- Temperature range from -100 to 700°C (-148 to 1292°F) with 7 models
- Accuracy to $\pm 0.04^{\circ}\text{C}$ and Stability to $\pm 0.005^{\circ}\text{C}$
- Dry block and liquid bath / dry block combined
- Time saving fast cooling and heating times
- Contamination free calibration of clamp sensors
- "Plug and Play" intelligent reference sensor
- Easy-to-read color display with User-friendly navigation
- Lightweight and easy to carry
- Multi-hole insert kits
- JofraCal Calibration Software
- Inputs for Thermocouple Calibration

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- Multi-hole insert kits
- JofraCal Calibration Software
- Inputs for Thermocouple Calibration

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RTC

Reference Temperature Calibrator

RTC 156	Temperature range	-30 to 155°C / -22 to 311°F
	Accuracy	with external STS ref. sensor (model B & C): $\pm 0.04^\circ\text{C} / \pm 0.07^\circ\text{F}$ with internal reference sensor: $\pm 0.10^\circ\text{C} / \pm 0.18^\circ\text{F}$
	Stability	$\pm 0.005^\circ\text{C} / \pm 0.009^\circ\text{F}$
	Resolution (user-selectable)	1" or 0.1" or 0.01" or 0.001"
	Heating time	30 to 23°C / -22 to 73°F 4 minutes 23 to 155°C / 73 to 311°F 15 minutes
	Cooling time	155 to 100°C / 311 to 212°F 4 minutes 100 to 23°C / 212 to 73°F 8 minutes 23 to -24°C / 73 to -11°F 15 minutes -24 to -30°C / -11 to -22°F 10 minutes
	Time to Stability	10 minutes
	Immersion depth	160 mm / 6.3 in
RTC 157	Temperature range	-45 to 155°C / -49 to 311°F
	Accuracy	with external STS ref. sensor (model B & C): $\pm 0.04^\circ\text{C} / \pm 0.07^\circ\text{F}$ with internal reference sensor: $\pm 0.10^\circ\text{C} / \pm 0.18^\circ\text{F}$
	Stability	$\pm 0.005^\circ\text{C} / \pm 0.009^\circ\text{F}$
	Resolution (user-selectable)	1" or 0.1" or 0.01" or 0.001"
	Heating time	-45 to 23°C / -49 to 73°F 7 minutes 23 to 155°C / 73 to 311°F 17 minutes
	Cooling time	155 to 100°C / 311 to 212°F 5 minutes 100 to 23°C / 212 to 73°F 10 minutes 23 to -30°C / 73 to -22°F 17 minutes -30 to -45°C / -22 to -49°F 25 minutes
	Time to Stability	10 minutes
	Immersion depth	160 mm / 6.3 in
RTC 158	Temperature range	-22 to 155°C/-8 to 311°F
	Accuracy	with external STS ref. sensor (model B & C): $\pm 0.04^\circ\text{C} / \pm 0.07^\circ\text{F}$ with internal reference sensor: $\pm 0.18^\circ\text{C} / \pm 0.32^\circ\text{F}$ (in insert) with internal reference sensor: $\pm 0.3^\circ\text{C} / \pm 0.54^\circ\text{F}$ (in bath)
	Stability	$\pm 0.01^\circ\text{C} / \pm 0.018^\circ\text{F}$
	Resolution (user-selectable)	1" or 0.1" or 0.01" or 0.001"
	Heating time	-22 to 23°C / -8 to 73°F 9 minutes 23 to 100°C / 73 to 212°F 23 minutes 100 to 155°C / 212 to 311°F 28 minutes
	Cooling time	155 to 100°C / 311 to 212°F 9 minutes 100 to 23°C / 212 to 73°F 24 minutes 23 to 0°C / 73 to 32°F 15 minutes 0 to -15°C / 32 to 5°F 21 minutes
	Time to Stability	15 minutes
	Immersion depth	Insert Hole version : 180 mm / 7.1 in Bath version : 150 mm / 5.9 in
RTC 159	Temperature range	-100 to 155°C / -148 to 311°F
	Accuracy	with external STS ref. sensor (model B & C): $\pm 0.06^\circ\text{C} / \pm 0.11^\circ\text{F}$ with internal reference sensor: $\pm 0.30^\circ\text{C} / \pm 0.54^\circ\text{F}$
	Stability	$\pm 0.03^\circ\text{C} / \pm 0.054^\circ\text{F}$
	Resolution (user-selectable)	1" or 0.1" or 0.01" or 0.001"
	Heating time	-100 to 23°C / -148 to 73°F 12 minutes 23 to 155°C / 73 to 311°F 14 minutes 155 to 23°C / 311 to 73°F 40 minutes
	Cooling time	23 to -80°C / 73 to -112°F 65 minutes -80 to -90°C / -176 to -130°F 20 minutes -90 to -100°C / -194 to -148°F 50 minutes
	Time to Stability	10 minutes
	Immersion depth	190 mm/6.3 in
RTC 250	Temperature range	28 to 250°C/82 to 482°F
	Accuracy	with external STS ref. sensor (model B & C): $\pm 0.07^\circ\text{C} / \pm 0.13^\circ\text{F}$ with internal reference sensor: $\pm 0.28^\circ\text{C} / \pm 0.50^\circ\text{F}$ (in insert) with internal reference sensor: $\pm 0.5^\circ\text{C} / \pm 0.90^\circ\text{F}$ (in bath)
	Stability	$\pm 0.02^\circ\text{C} / \pm 0.036^\circ\text{F}$
	Resolution (user-selectable)	1" or 0.1" or 0.01" or 0.001"
	Heating time	28 to 100°C / 82 to 212°F 3 minutes 50 to 100°C / 122 to 212°F 2 minutes 100 to 250°C / 212 to 482°F 9 minutes
	Cooling time	250 to 100°C / 482 to 212°F 27 minutes 100 to 50°C / 212 to 122°F 27 minutes 50 to 28°C / 122 to 82°F 28 minutes
	Time to Stability	15 minutes
	Immersion depth	Insert Hole version : 180 mm / 7.1 in Bath version : 150 mm / 5.9 in
RTC 187	Temperature range	-45 to 180°C/-49 to 356°F
	Accuracy	with external STS ref. sensor (model B & C): $\pm 0.04^\circ\text{C} / \pm 0.07^\circ\text{F}$ with internal reference sensor: $\pm 0.12^\circ\text{C} / \pm 0.18^\circ\text{F}$
	Stability	$\pm 0.005^\circ\text{C} / \pm 0.009^\circ\text{F}$
	Resolution (user-selectable)	1" or 0.1" or 0.01" or 0.001"
	Heating time	-45 to 23°C / -49 to 73°F 7 minutes 23 to 100°C / 73 to 212°F 8 minutes 100 to 180°C / 212 to 356°F 9 minutes
	Cooling time	180 to 100°C / 311 to 212°F 8 minutes 100 to 23°C / 212 to 73°F 11 minutes 23 to -30°C / 73 to -22°F 17 minutes -30 to -45°C / -22 to -49°F 25 minutes
	Time to Stability	10 minutes
	Immersion depth	160mm / 6.3 in
	Temperature range	33 to 700°C/91 to 1292°F
	Accuracy	with external STS ref. sensor (model B & C): $\pm 0.11^\circ\text{C} / \pm 0.2^\circ\text{F}$ with internal reference sensor: $\pm 0.29^\circ\text{C} / \pm 0.52^\circ\text{F}$
	Stability	@ 33 to 125°C/91 to 257°F : $\pm 0.008^\circ\text{C} / \pm 0.015^\circ\text{F}$ @ 125 to 425°C/257 to 797°F : $\pm 0.015^\circ\text{C} / \pm 0.027^\circ\text{F}$ @ 425 to 700°C/797 to 1292°F : $\pm 0.02^\circ\text{C} / \pm 0.036^\circ\text{F}$
	Resolution (user-selectable)	1", 0.1", 0.01" or 0.001"
	Heating time	33 to 700°C / 91 to 1292°F 45 minutes 700 to 100°C / 1292 to 212°F 43 minutes
	Cooling time	100 to 50°C / 212 to 122°F 17 minutes 50 to 33°C / 122 to 91°F 20 minutes
	Time to Stability	10 minutes
	Immersion depth	200 mm / 7.9 in

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-  [RTC 158/250 Datasheet](#)
-  [RTC 159 Datasheet](#)
-  [RTC 187 Datasheet](#)
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▼ Manual

-  [RTC User Manual](#)
-  [RTC Reference Manual](#)
-  [JofraCal User Manual Temperature](#)
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