TECHNICAL DATA

2100 and 2200 Benchtop Temperature Controllers

Key features

- Most stable temperature controllers available
- Resolution as high as 0.00018°C
- RS-232 interface included for automating applications

Product overview: 2100 and 2200 Benchtop Temperature Controllers

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- RS-232 interface included for automating applications

It’s no secret why Fluke Calibration's temperature baths are the most stable baths in the world. If you’re using a homemade bath there’s a good chance you can drastically improve its performance by using one of Fluke Calibration’s two temperature controllers.

The 2100 controller can sense and respond to temperature changes as low as 0.00001 °C, which means you can enjoy stabilities better than ±0.001 °C in a mechanically sound bath.

The 2100 has set-point resolution of 0.002 °C using a thermistor input and 0.01 °C using an RTD input. In high-resolution mode you can adjust the set-point in increments smaller than 0.0002 °C. Actual display resolution is 0.01 °C.

Power output is provided on a standard IEC female power receptacle. An auxiliary power output provides constant line voltage to equipment accessories such as stirrers. The 2200 controller is smaller and lighter than the 2100 and uses an RTD input to provide stabilities as good as ±0.015 °C. Resolution is 0.01 °C and temperature range is –100 °C to 800 °C.

If operated from any line power between 100 and 230 V ac, 50 or 60 Hz, the 2200 will supply up to 10 amps power output on a standard IEC female power receptacle. Both models are programmed using the front-panel buttons and also come with an RS-232 interface.

Either of these benchtop controllers can turn an average temperature bath into a true calibration tool.

Specifications: 2100 and 2200 Benchtop Temperature Controllers

Specifications	
Temperature range	**2100**: –100 °C to 670 °C **2200**: –100 °C to 800 °C
Cool stability	**2100**: ±0.0005 °C to ±0.002 °C **2200**: ±0.005 °C to ±0.02 °C (depends on system design)
Display accuracy (with probes shown below)	±1.0 °C without system calibration
Display resolution	0.01 °
Set-point resolution	**2100**: 0.0002 ° in high-resolution mode **2200**: 0.01 °
Auxiliary and heater output	**2100**: 100–125 nominal VAC or 230 nominal VAC (inteally switchable), 50/60 Hz, 10 A max. **2200**: 100–230 VAC, 50/60 Hz, 10 A max.
Heater output	Solid-state relay
Dimensions (H x W x D)	**2100**: 72 x 172 x 250 mm (2.83 x 6.75 x 9.86 in) **2200**: 72 x 114 x 178 mm (2.85 x 4.5 x 7 in)
Probes	**2620**: RTD, 280 x 4.8 mm (11 x 0.187 in), –100 to 550 °C **2622**: RTD, 229 x 4.8 mm (9 x 0.187 in), –100 to 550 °C **2624**: RTD, 356 x 4.8 mm (14 x 0.187 in), –100 to 550 °C **2611**: Thermistor, 229 x 5.5 mm (9 x 0.218 in), –10 °C to 110 °C (2100 cooller only)

Ordering information

2100-P

Controller, PRT

2100-T

Controller, Thermistor

2200

Controller, PRT

2125

IEEE-488 Interface, 2100

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