

Mesa 801 Reference Thermometer



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Accurate and repeatable to 0.05 °C over its full range, the Mesa 801 Reference Thermometer is the gold standard of industrial temperature calibration. Whether working outdoors in environments or on the floor of a processing plant, the battery-operated, portable reference thermometer is designed to go where you work.

- Stainless steel probe
- Digital readout
- Calibrated as a system
- 90° rotating backlit LCD display
- User-configurable stability indicator

See reverse side for product specifications.

Related Item:

Our MesaCal MicroBath can be used anywhere for any type of DataTrace sensor. It's lighter and smaller than most dry-wells, has a spill-proof lid, and is easy to transport.



Range: -20 °C to 150 °C (-4 °F to 302 °F)

Accuracy: ± 0.25 °C

Stability: ± 0.03 °C at -25 °C (oil 5010)

± 0.05 °C at 125 °C (oil 5010)

[Visit our website](#) for more information!

Capable of automated calibrations using the DataTrace DT Pro 1.x Software, simply connect to a serial communication port and use the calibration utility within DT Pro to take advantage of this feature.

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Product Specifications

Range: -50 °C to 160 °C

Accuracy: ± 0.05 °C (± 0.09 °F)

Display Units: °C, °F

Sensor Type: 100 Ω wire-wound PRT

Probe Temperature Coefficient: 0.00385 Ω/Ω/°C nominal

Minimum Immersion Depth:

7 cm (2.8 in) liquid medium

12 cm (4.8 in) dry medium

Probe Sheath Material: SST

Response Time:

4.8 mm dia. probe (3/16 in): 14 seconds

6.35 mm dia. probe (1/4 in): 21 seconds

Probe Hysteresis: ±0.01 °C

Temperature Resolution: Selectable: 0.1, 0.01, 0.001 (default 0.01)

Sample Rate: Selectable: 0.5, 1, 2, seconds (default 1)

Operating Temperature Range Readout: -10 °C to 50 °C (14 °F to 122 °F)

Optional Data Logging: Up to 10,000 time-stamped readings stored to internal memory

Logging Intervals: 2, 5, 10, 30, or 60 seconds; 2, 5, 10, 30, or 60 minutes

Power: 3-AAA Batteries, typical battery life of 300 hours without LCD backlight

EMC Compliance: EN61326:2006 Annex C; CISPR II, Edition 5.0-2009; Class "B"

Enclosure Rating: IP50

Electronics Dimensions (HxWxD): 114 x 57 x 25 mm (4.5 x 2.25 x 1.0 inches)

Weight: 196 g (6.9 oz)

Calibration (included): NVLAP-accredited, NIST-traceable

Probe Length and Diameter: 3/16" diameter-- 9" in length, 1/4" diameter-- 12" or 20" in length