

## Temperature Probe for HOBO® LCD Data Logger

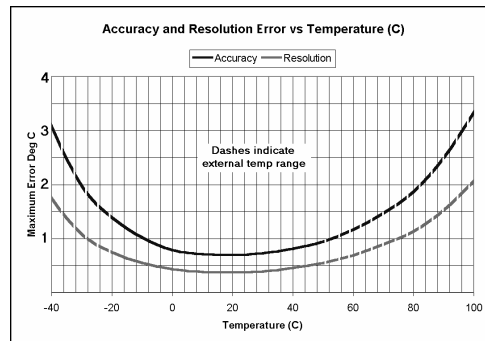
### Temperature probe enclosed:



- Part number L-TMA-M002, temperature probe with 2-meter cable
- Part number L-TMA-M006, temperature probe with 6-meter cable
- Part number L-TMB-M002, 4-inch food-grade stainless steel probe with 2-meter cable

### Probe specifications (when used with the HOBO LCD data logger)

Range	L-TMA-M002 & L-TMA-M006: -40° to 100°C (-40° to 212°F) in air, and 0° to 50°C (32° to 122°F) in water, sensor tip and cable can be immersed in fresh water up to 50°C (122°F) for 1 year  L-TMB-M002: -40° to 100°C (-40° to 212°F) stainless steel sensor tip only is suitable for immersion
Accuracy	±0.7° at 20°C (±1.3° at 68°F) Insert L-TMA-M002 & L-TMA-M006 probe 2.3 cm (0.9 inches) deep, minimum Insert L-TMB-M002 probe 5.1 cm (2 inches) deep, minimum
Temperature resolution	±0.4° at 20°C (±0.7° at 68°F)
Response time	To 90% in 1 m/s (2.2 mph) airflow: <3 minutes typical  To 90% in stirred water: L-TMA-M002 & M006: 1 minute typical L-TMB-M002: 15 seconds typical
Dimensions	L-TMA-M002 & L-TMA-M006: 0.7 x 2.6 cm (0.275 x 1 inches)  L-TMB-M002: 0.3 x 10.2 cm (0.12 x 4 inches)
Weight	L-TMA-M002: 30 g (1.1 oz) L-TMA-M006: 80 g (2.8 oz) L-TMB-M002: 34 g (1.2 oz)




- This probe works with the HOBO external input LCD data logger (part number H14-002). Use it to monitor temperature in locations remote from the logger.
- The L-TMA-M00x probe can be used in air, soil, or water. The sensor tip and cable is designed to last at least one year in water as warm as 50°C (122°F). If the sensor is continually exposed to water for more than a year, it will eventually drift. Exposure to water above 50°C (122°F) is not recommended and may significantly reduce the life of the sensor.
- On the L-TMB-M002 stainless steel probe, the sensor tip is waterproof, but the handle is not intended for prolonged use in water or moist environments, especially those with temperatures greater than 50°C (122°F).

### Installation

To install the probe, plug the RJ-12 connector into the receptacle jack on the side of the HOBO external input LCD data logger with the connector tab facing towards the front. The connector will “click” into place when it is fully inserted. To remove the probe, press the RJ-12 connector tab down and gently remove the connector.

The probe’s temperature sensor is inside the stainless steel housing. When mounting the probe, be sure to thermally insulate the sensor from the mounting surface. For accurate readings, the probe should not be attached directly to a mounting surface unless that surface is at the same temperature as the environment being monitored. The mass of the mounting surface can also affect the probe’s response time, so for high accuracy and fast response, it is best to mount the sensor away from the surface.

For accurate temperature measurements, this probe should not be placed in direct sunlight. In outdoor locations that are exposed to direct sun, use a solar radiation shield.

 The CE Marking identifies this product as complying with all relevant directives in the European Union (EU).\*

*\* These probes meet criterion B of CE specification EN61326 for radiated immunity and conducted immunity. To minimize the error due to conducted immunity, use the shortest possible probe cable length and keep the probe cable as far as possible from other cables.*