

TMDL50 - High Temperature Datalogger

For Reliable Temperature Monitoring in Extreme Environments

The TMDL50 is designed with a compact, rugged, stainless-steel enclosure with IP68 waterproof rating for full submersion, and is ideal for sterilization, pasteurization, autoclaves, and other high-heat applications. It offers precise datalogging capabilities storing up to 48K readings.

Key Features:

- Built-in high-accuracy PT-1000 platinum sensor measures temperature from -40 to 284°F (-40 to 140°C) with $\pm 0.8^{\circ}\text{F}$ (0.4°C) accuracy
- Rugged housing made of food-grade SU304 stainless steel and is waterproof (IP68), ideal for full submersion and steam sterilization
- Long battery life up to 18 months (user-replaceable)
- Store up to 48K readings and can transfer to a PC using USB cable (no software required)
- Wide sampling rate intervals and programmable Start/Stop mode
- Includes 1 $\times$ 3.7V Lithium battery and USB cable

Applications:

- Autoclave validation
- Pasteurization monitoring
- Steam sterilization
- Food and pharmaceutical processing
- HACCP compliance and quality assurance

Users:

- Quality assurance professionals
- Pharmaceutical and biotech labs
- Clinical and medical device sterilization staff
- Food and beverage manufacturers
- Researchers and laboratory technicians



Specifications

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Temperature Range (Resolution)	-40 to 284°F/-40 to 140°C (0.1°F/°C)
Accuracy	$\pm 0.8^{\circ}\text{F}$ (0.4°C)
Continuous Operating Range	Up to 284°F (140°C)
Operating Range in Ovens	Up to 284°F (140°C) for 1 week
Operating Range in Autoclaves	Up to 273°F (134°C) for 30 mins
Memory Storage (format)	48K readings (transfer to PC in CSV/PDF - no software required)
Sampling Interval (programmable)	1, 5, 10, 30 seconds; 5, 10, 30, 60, 90, 120 minutes
Housing Material (IP Rating)	SU304 stainless steel (Waterproof IP68)
Power	Replaceable 3.6V Lithium battery (lasts up to 18 months)
Dimensions/ Weight	0.67 $\times$ 1.85" (17 $\times$ 47mm)/ 1.8oz (50g)

Ordering Information

TMDL50 High Temperature Datalogger
TMDL150-NIST..... High Temperature Datalogger with Certificate Traceable to NIST

For more information about TMDL50, please scan or click:



Ideal for autoclaves, sterilization, pasteurization, and other high-heat applications



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