

DATA SHEET

TMELOG 1050 Data Logger - robust temperature logger



Description

The TMELOG 1050 is a rugged and waterproof data logger which is perfect for outdoor applications.

Suitable applications

- Environmental monitoring
- Food processing and storage
- Pharmaceutical manufacture
- Logistics monitoring
- Museums and art galleries

Features

Total Reading Capacity	32,000 readings
Memory type	Non Volatile
Trigger Start	Magnetic Switch
Delayed Start	Relative/Absolute (up to 45 days)
Stop Options	When full, After Readings, Never (overwrite oldest data)
Reading Types	Actual, Min, Max
Logging Interval	1 sec to 10 days
Offload	While stopped or when logging in minutes mode
Alarms	2 fully programmable; latchable

Reading Specification

Temperature

Reading Range	-40°C to +85°C (-40°F to +185°F)
Sensor Type	10K NTC Thermistor (Internally mounted)
Response Time	25 minutes to 90% FSD in moving air
Reading Resolution	0.01°C or better

Physical Specification

IP Rating	IP68 waterproof (see notes)
Operational Range*	-40°C to +85°C (-40°F to +185°F)
Case Dimensions	
Height	50mm/1.97"
Width	51 mm/2.05"
Depth	80mm/3.15"
Weight	110g/3.9oz

*The Operational Range indicates the physical limits to which the unit can be exposed, not the reading range over which it will record

Notes

Battery Type	SAFT LS14250 or LST14250; Tekcell SBAA02P
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The logger will operate with other ½ AA 3.6V Lithium (Li-SOCl₂) batteries but performance cannot be guaranteed

Replacement Interval	Annually
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Before replacing the battery the logger must be stopped.

Data stored on the logger will be retained after a battery is replaced.

Please refer to the service instruction sheet for battery replacement instructions.

If used at low temperatures the logger should be allowed to warm to room temperature before it is opened to avoid condensation forming inside of the unit.

The IP68 rating is valid only when the units connector cap is securely fitted and is valid to a depth of 15m (50ft)

The position of the units trigger start switch is indicated by the ... label on the back of the logger. When the "Wait until trigger event" option is selected in the Tinytag Explorer software, the green LED on the unit will flash once every eight seconds, indicating the the unit is waiting to log. When a magnet is held next to the label, the green LED will light until the magnet is removed to show that the switch is closed. After the magnet has been removed, the green LED will flash every four seconds to indicate that the logger is recording.