

DATA SHEET

TMELOG 1000 Data Logger – lightweight and economical tablet type



Description

The TMELOG 1000 is a lightweight and economical tablet type temperature data logger which is ideal for monitoring the temperature of goods in transit.

Suitable applications

- Chill chain monitoring
- Pharmaceutical transportation
- Dry goods transportation
- Environmental monitoring

Features

Total Reading Capacity	8,000 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

Reading Range	-40°C to +70°C (-40°F to 158°F)
Sensor Type	10K NTC Thermistor (Internally mounted)
Response Time	10 mins to 90% FSD in moving air
Reading Resolution	0.01°C or better

Physical Specification

IP Rating	IP54 splash proof (see notes)
Operational Range*	-40°C to +70°C (-40 °C to +158 °F)
Case Dimensions	
Diameter	60.2mm/2.38"
Thickness	15.3mm/0.6"
Hanging Tab	Extra 12mm/0.47"
Mounting Hole	6mm/0.24" (diameter)
Weight	28g/0.99oz

*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 Renata CR2325

Replacement Interval Annually*

*If the logging intervals of less than five seconds are used continuously, the battery life of the unit will be reduced and the battery will need to be replaced more frequently.

Before replacing the battery the data logger must be stopped.

When replacing the battery, wait at least one minute after removing the old battery before fitting the new one.

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

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

The position of the unit's trigger start switch is indicated by the --- markings on its base. The switch itself is positioned between the two sets of markings and when a magnet is passed between them, the green LED on the front of the logger will light briefly to indicate that the unit has been activated. Before the logger is "triggered" the green LED will be flashing once every eight seconds; after it will flash once every four seconds.

LED Flash Patterns

When logging, two status LEDs are visible through the lid of the unit. The flash patterns for these indicators are as follows:

Flash Pattern	Indication
A green flash every 4 seconds	Logging
A green flash every 8 seconds	Waiting to Log (trigger or delayed start set)
A red flash every 4 seconds	Alarm limit breached