

Data Logger Technical Specifications

Casing	Polycarbonate, watertight to IP68 Humidity loggers splash proof from top
Size	65 × 31 × 106 mm
Weight	115 g
Ambient	-40 + 85 °C
Battery	1 × ½AA, 3.6V
	T-TEC 6: Expected battery life: 3-4 years
	T-TEC 7: Expected battery life: 2 years, Low battery warning on display
Sensor (see sensor specifications)	Temperature: Precision Thermistor or Pt100
	Humidity: capacitive precision
Memory	E model: 12,000 to 25,000 sets of measurements
	C model: 10,600 sets each sensor
	F model: 10,600 sets each sensor (21,200 if only one)
	A & P: 20,000 to 60,000 sets of measurements
Interface	Special interface cable to serial port and/or special interface cable to USB Port
Security ID	Permanent serial number
Warranty	1 Year (not incl. sensor)
Resolution	Temperature: Better than 0.1 °C (see sensor specifications)
	Humidity: Better than 0.1%RH

Special Alarm functions

T-TEC 6: Audio alarms, T-TEC 7 visual alarms

When starting the logging, one or two alarms may be set as minimum and/or maximum alarms. A period of grace may be set in minutes. Alarms can be programmed to reset themselves once a day at a chosen time. Type C loggers (For temperature and Humidity) have alarm functions for temperature **only**.

Special Relay Output

Some types may be supplied with optional **relay output**. Change-over relay, all three contacts available. Contacts: Gold clad silver contacts. Nominal switching capacity (Resistive load) 1A/30V DC, 0.5A 125V AC

Thermochron™ data logger specifications

Casing	Stainless Steel, Polypropylene seal
Size	17.35mm diameter 5.9mm height
Weight	3.2 g
Ambient	-40 to 85 °C. Should not be exposed to temperatures in excess of 70 °C for prolonged time.
Battery	Built in: Non-replaceable Estimated life time: 5-7 years, depending on: • ambient temperature • number logs taken • resolution (DS1922 and DS1923) • Logging interval (DS1922 and DS1923)
Sensor	Built in, semiconductor
Memory	DS1921: 2,048 logs DS1922: 4096 or 8192 (depending on resolution) DS1923: 2,048 or 4,096 (depending on resolution)
Interface	USB adaptor
Security ID	Engraved unique serial number on case. This number also embedded in internal electronics.
Resolution	1921: ± 0.5 °C 1922: ± 0.5 °C (low resolution) or ± 0.0625 °C (high resolution) 1923: ± 0.5 °C (low resolution) or ± 0.0625 °C (high resolution)
Accuracy	± 1 °C from -20 + 70 °C, at time of calibration at factory.
Time Accuracy	Maximum 8 minutes per month over full temperature range.

Thermochron is a registered trademark of Maxim Integrated Products.