DATASHEET

Temp101A

MadgeTech

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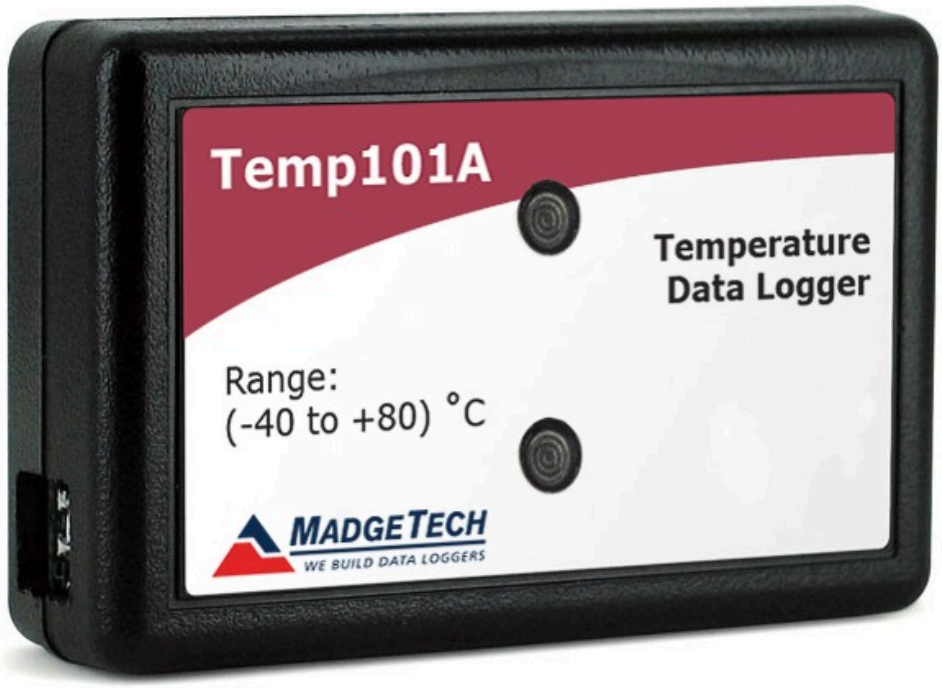
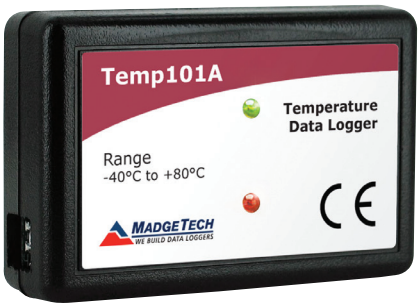


MADGETECH
WE BUILD DATA LOGGERS

Temp101A

Temperature Data Logger



The Temp101A is second to none in the compact, portable and low cost data logger class. This device can measure and record ambient temperature from -40 °C to 80 °C (-40 °F to +176 °F) and is approximately the size of a matchbox which allows for easy placement even in tight spaces.

The Temp101A features a pushbutton start/stop on the device or can be configured to start and stop using the MadgeTech Data Logger Software, with the ability to schedule a delayed start up to eighteen months in advance. These features combined with the ability to store over 2,000,000 readings makes the Temp101A the ideal solution for long term temperature deployment and monitoring cycles.

Some common applications for the Temp101A include but are not limited to cold chain and shipping applications, warehouse and facility mapping, HVAC or refrigerator and freezer monitoring.

FEATURES

- 10 Year Battery Life
- ±0.5 °C (±0.9 °F) Accuracy
- Multiple Start/Stop Function
- Ultra High Speed Download
- 2,095,104 Reading Storage Capacity
- Memory Wrap
- Precision RTD Sensing Element
- Battery Life Indicator
- Optional Password Protection
- Programmable High and Low Alarms
- Field Upgradeable

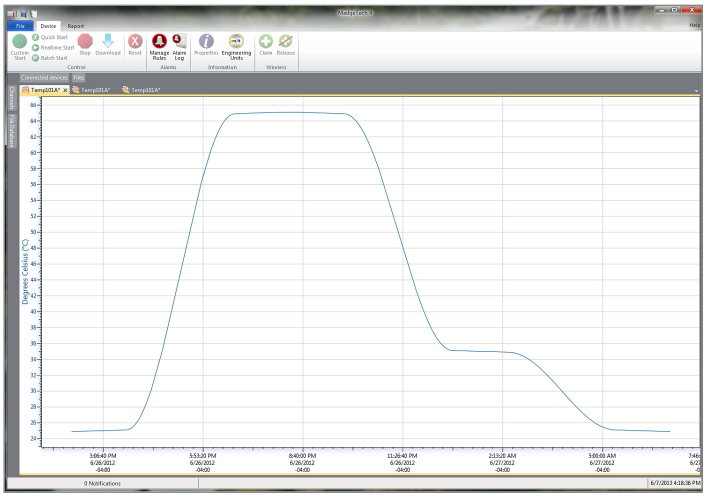
BENEFITS

- Simple Setup and Installation
- Minimal Long-Term Maintenance
- Long-Term Field Deployment

APPLICATIONS

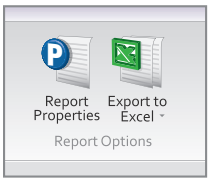
- Cold Chain
- Refrigerator and Freezer Monitoring
- Vaccine Monitoring
- Warehouse Mapping
- HVAC
- General Purpose Temperature Recording

MadgeTech 4 Software Features

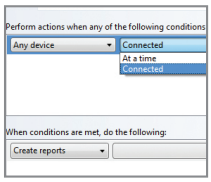


Graph View

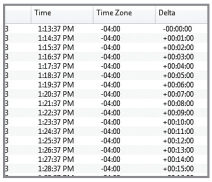
- Multiple graph overlay
- Statistics
- Digital calibration
- Zoom in/ zoom out
- Lethality equations (F0, PU)
- Mean Kinetic Temperature
- Full time zone support
- Data annotation
- Min./Max./Average lines
- Summary view



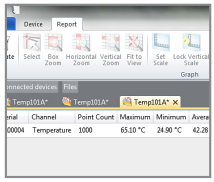
Export to Excel



Automation



Tabular Data View



Statistics

Specifications

Specifications are subject to change without notice. Specific warranty remedy limitations apply. Call **(603) 456-2011** or go to **madgetech.com** for details.

TEMPERATURE

Temperature Sensor	Precision RTD Element
Temperature Range	-40 °C to +80 °C (-40 °F to +176 °F)
Temperature Resolution	0.01 °C (0.02 °F)
Calibrated Accuracy	±0.5 °C (±0.9 °F) from -5 °C to +55 °C (+23 °F to +131 °F) ±1.0 °C (±1.8 °F) from -40 °C to -5.01 °C (-40 °F to +22.9 °F) and +55.01 °C to +80 °C (+131.01 °F to +176 °F)

GENERAL

Start Modes	Immediate start Delay start up to 18 months Multiple pushbutton start/stop
Stop Modes	Manual through software Timed (specific date and time)
Multiple Start/Stop Mode	Start and stop the device multiple times without having to download data or communicate with a PC
Real Time Recording	May be used with PC to monitor and record data in real time
Password Protection	An optional password may be programmed into the device to restrict access to configuration options. Data may be read out without the password.
Memory	2,095,104 readings; software configurable memory wrap 419,020 readings in multiple start/stop mode
Wrap Around	Yes
Alarm	Programmable high and low limits; alarm is activated when temperature reaches or exceeds set limits
LEDs	2 Status LEDs
Reading Rate	1 reading every second up to 1 reading every 24 hours
Calibration	Digital calibration through software
Calibration Date	Automatically recorded within device
Battery Type	3.6V lithium battery included; user replaceable
Battery Life	10 years typical at a 15 minute reading rate
Data Format	Date and time stamped °C, K, °F or °R
Time Accuracy	±1 minute/month at 25 °C (77 °F) (Stand alone mode)
Computer Interface	USB (interface cable required); 115,200 baud
Operating System Compatibility	Windows XP SP3 or later
Software Compatibility	Standard Software version 2.03.06 or later Secure Software version 4.1.3.0 or later
Operating Environment	-40 °C to +80 °C (-40 °F to +176 °F) 0 %RH to 95 %RH non-condensing
Dimensions	1.4 in x 2.1 in x 0.6 in (35 mm x 54 mm x 15 mm)
Weight	0.8 oz (24 g)
Material	Polycarbonate
Approvals	CE

BATTERY WARNING: Fire, explosion and severe burn hazard. Do not recharge, disassemble, heat above 100 °C (212 °F), incinerate, crush, or expose contents to water.

Ordering Information

Temp101A	PN 901678-00	Temperature Data Logger
IFC200	PN 900298-00	USB interface cable
LTC-7PN	PN 900352-00	Replacement battery for the Temp101A

For Quantity Discounts call (603) 456-2011 or email **sales@madgetech.com**

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