RTDTEMP101A RTD BASED TEMPERATI

RTD BASED TEMPERATURE DATA LOGGER



Features

- 10 Year Battery Life
- ±0.04 °C Accuracy
- Multiple Start/Stop Function
- Ultra High Speed Download
- 1,376,256 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

- · Calibration Chamber Monitoring
- HVAC
- Medical/Pharmaceutical
- Environmental Studies
- Precision Temperature Recording



Don't be fooled by the small size, the RTDTemp101A temperature data logger offers a wealth of features with a compact form factor about the size of a matchbox. When used with an external RTD probe, this data logger measures temperatures from -200 °C to 850 °C.

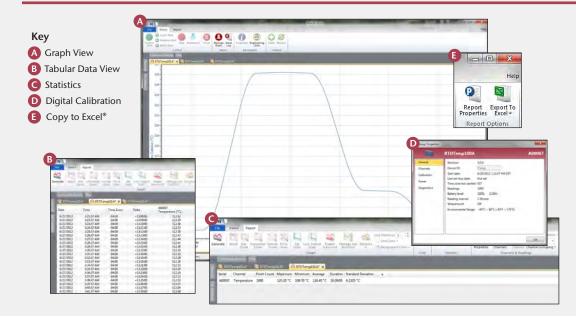
The low power design of this data logger provides a battery life of up to 10 years but still delivers ultra-fast download speeds. The RTDTemp101A

can store over a million readings and offers a software configurable memory wrap option. In addition to having a pushbutton start stop, the device also can be programmed to a delay start up to 18 months in advance.

Using the MadgeTech Data Logger Software, data from the RTDTemp101A is easily downloaded, displayed and formatted for reports or the data can be exported to Excel for further presentation customization.

This versatile device can be used for a wide variety of applications such as calibration chamber monitoring, HVAC applications, environmental studies or precision temperature recording for medical and pharmaceutical applications.

MADGETECH DATA LOGGER SOFTWARE



Software Features:

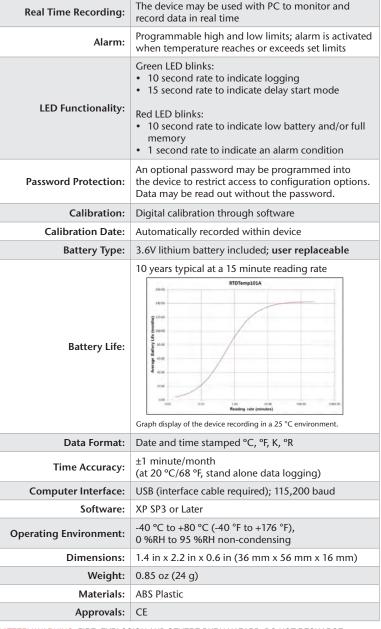
- Multiple graph overlay
- Statistics
- Digital calibration
- Zoom in/ zoom out
- Lethality equations (F0, PU)
- Mean Kinetic Temperature
- Full time zone support
- Data annotation
- Min./Max./Average lines
- Data table view
- Automatic report generation
- Summary view
- Multilingual

RTDTEMP101A SPECIFICATIONS*

Temperature Sensor:**	External 100 Ω RTD (Sold Separately)	
Measurement Temperature Range:	18 Ω to 400 Ω -200 °C to +850 °C (-328 °F to +1562 °F) (Probe Dependent)	
Temperature Resolution:	0.0005 Ω 0.01 °C (0.018 °F) (Probe Dependent)	
Calibrated Accuracy:	±0.015 Ω ±0.04 °C (±0.072 °F) (<i>Probe Dependent</i>)	
Calibrated Accuracy Range***:	18.5 Ω to 175.9 Ω -200 °C to +200 °C (-328 °F to +392 °F)	
Input Connection****:	Removable screw terminal; 2, 3 or 4 wire interface	
Temperature Effect on Span:	< 2 ppm/°C	
Temperature Effect on Offset:	< 10 ppm cumulative over entire range	
Reading Rate:	1 reading every second up to 1 reading every 24 hours	
Memory:	1,376,256 readings; software configurable memory wrap 589,824 readings in multiple start/stop mode	
Wrap Around:	Yes	
Start Modes:	Immediate startDelay start up to 18 monthsMultiple 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	
Multiple Start/Stop Mode Activation:	To start the device: Press and hold the pushbutton for 5 seconds, the green LED will flash during this time. The device has started logging. To stop the device: Press and hold the pushbutton for 5 seconds, the red LED will flash for three seconds and then the green LED will flash for two seconds. The device has stopped logging.	

^{**}Temperature specifications based on ideal 100 Ω Pt RTD compliant with IEC 751 (1983) and ITS-90, 5000 Ω FSR (accuracy based on 36 in lead wire RTD with 4 wire configuration)

(Note: Please contact the manufacturer of the RTD probe for questions on the resistance)



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

MODEL	PART NUMBER	DESCRIPTION
RTDTEMP101A	901520-00	RTD Temperature Data Logger
IFC200	900298-00	Software, manual and USB interface cable
LTC-7PN	900352-00	Replacement battery for RTDTemp101A

Temperature Humidity **ASK ABOUT** Pressure **OUR OTHER** pН **DATA** Level **LOGGERS** Shock LCD Display Pulse/Event/State Current Voltage Wireless Intrinsically Safe Spectral Vibration Motion



^{***}Calibrated accuracies based on standard MadgeTech calibrations for 0 to 200 Ω range.

^{****100} Ω , 2 or 4 wire RTD probes are recommended for the most accurate performance. Most 100 Ω , 3 wire RTD probes will work, but MadgeTech cannot guarantee the accuracy. To determine whether or not the 3-wire RTD probe will work, the resistance between the two same colored wires should be less than 1 Ω .