

RTDTEMP101 SPECIFICATIONS*

Temperature**

Measurement Range: -200 to +850°C

Resolution: 0.01°C

***Calibrated Accuracy: $\pm 0.05^\circ\text{C}$ (-200 to +260°C)
 $\pm 0.3^\circ\text{C}$ (+260 to +850°C)

Resistance

Nominal Range: 0 to 5000Ω

Resolution: 0.001Ω

***Calibrated Accuracy: $\pm 0.015\Omega$ (0 to 200Ω)
 $\pm 0.015\Omega + 0.015\%$ of readings
(200 to 400Ω)

Input Connection: Removable screw terminal; 2,3 or 4 wire interface

Temperature Effect on Span: $< 25\text{ppm}/^\circ\text{C}$; $< 10\text{ppm}/^\circ\text{C}$ typical

Temperature Effect on Offset: $< 10\text{ppm}$ cumulative over -40 to $+80^\circ\text{C}$

Start Time: Software programmable Start time and date, up to six months in advance

Real Time Recording: May be used with PC to monitor and record data in real time

Memory: 21,845 readings

Reading Interval: 1 reading every 2 seconds to 1 every 12 hours

Calibration: Digital calibration through software

Calibration Date: Automatically recorded within device

Power: 3.6V lithium battery included

User Replaceable Battery: 1 year typical (1 minute reading rate at 25°C)

Data Format: Date and time stamped °C, °F, K, °R, ohms

Time Accuracy: ± 1 minute/month (at 20°C, RS232 Port not in use)

Computer Interface: PC serial or USB (interface cable required); 2,400 baud

Software: Windows 95/98/ME/NT/2000/XP based software

Operating Environment: -40 to $+80^\circ\text{C}$, 0 to 95%RH non-condensing

Dimensions: 1.4" x 2.5" x 0.6" (36mm x 64mm x 16mm)

Weight: 1.0 oz (28 g)

Approvals CE

**Temperature specifications based on ideal 100Ω platinum RTD compliant with IEC 751 (1983) and ITS-90, 5000Ω (accuracy based on 36" lead wire RTD with 4 wire configuration)

***Calibrated accuracies based on standard calibrations for 0 to 200Ω range

BATTERY WARNING: FIRE, EXPLOSION, AND SEVERE BURN HAZARD.
DO NOT RECHARGE, DISASSEMBLE, HEAT ABOVE 212°F INCINERATE OR EXPOSE CONTENTS TO WATER.

SOFTWARE FEATURES

Multiple Graphs: Simultaneously analyze data from several units or deployments; easily switch to a single data series

Graphical Cursor: One click displays readings by time, value, parameter or sample number

Data Table: Instantly access tabular view for detailed dates, times, values, and annotations

Scaling Options: Autoscale function fits data to the screen, or allows user to manually enter their own values

Formatting Options: Change colors, line styles, plotting options, show or hide channels quickly

Statistics: Calculate averages, min, max, standard deviation, and mean kinetic temperature with the touch of a button

Export Data: Export data in a variety of common formats, or switch to Excel® with a single click

Calibration: Automatically calculate and store calibration parameters

Logger Configuration: Easy set up and launch of data loggers with immediate or delayed start, preferred sample rate, and device ID

Communications: Automatically sets up communications port, or lets user select configuration

*SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. SPECIFIC WARRANTY AND REMEDY LIMITATIONS APPLY.

ORDERING INFORMATION

Model	Description	Price (U.S.)
RTDTEMP101	Precision Temperature Recorder	\$399.00
IFC110	Software, manual and RS232 interface cable	\$99.00
IFC200	Software, manual and USB interface cable	\$119.00
NIST	N.I.S.T. Calibration Certificate	Call for Pricing
LTC-7PN	Replacement battery for RTDTemp101	\$10.00



ThermoWorks

270 N. Main St., Ste. D Alpine, UT 84004
Ph: 801-756-7705 Fax: 801-756-8948
www.thermoworks.com