RD-Temp Temperature Data logger



Operator's Manual M1667/0100

RD-Temp

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Temperature Data logger



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Where Do I Find Everything I Need for **Process Measurement and Control?** OMEGA...Of Course!

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Cod Cells & Pressure Cauges
Displacement Transducers
Referencestation & Accessories

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- Retaineters, Cas Mass Flowmete How Computers Air Vekcity Indicators Tothine / Paddlewheel Systems Totalizers & Batch Controllers

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 Canridge & Strip Heaters
 Immersion & Band Heaters
 Ensible Heaters
 Laboratory Heaters

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Transducers & Strain Cages E Load Cells & Pressure Cauges D Usplacement Franslucers Instrumentation & Accessories

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 Imported Connectors, Parkets & Assemblies
 Data Acquisition and Engineering

 Wire Thermicouple, RTD & Thermistor
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 Recorder, Controllers & Process Monitors
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 Recorders, Printers & Plotters

Transducers & Stain Cages
 Load Cells & Desoure Gauges
 Displacement Transducers
 Instrumentation & Accessories

- FLOW/LEVEL

Computers Computers Air Velocity Indicators Totalizers & Batch Controllers Totalizers & Batch Controllers

- PH/CONDUCTIVITY
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The Omega RD-TEMP Data logger provides you with reliable and easy to use temperature logging capability. It can store up to 1800 measurements and the measurement duration can be adjusted to 31 settings between 15 minutes and 360 days. The data logger comes complete with sensor and battery.

Getting started with RD-TEMP Reading out your data

Your RD-TEMP already has some data in it even if it's brand new. You can plot this data by connecting the RD-TEMP to your computer with the interface cable and starting Logger Software. Select READ-OUT from the menu. The software will read the data from the RD-TEMP and display it after prompting you to save the data.

Launching your RD-TEMP

To launch the data logger for data collection, connect it to your computer with the interface cable and start Logger Software. Then, simply select Launch..., choose an appropriate measurement interval and select Start.

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Logger Software

RD-TEMP is launched, off-loaded and has its data plotted by Logger Software for Windows. This software is available for a PC running Windows software.

Connecting to your PC RD-TEMP comes with PC software and a PC cable. The PC cable shown below is designed to connect directly between the PC's DB-9 serial port and the RD-TEMP logger. A DB-25 to DB-9 adapter may be needed if your computer does not have an available DB-9 port.





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To start Logger Software for Windows, inside Windows double click on the software application.

RD-TEMP must be connected for launch and readout! The RD-TEMP must be connected to your computer for launching and data readout. However, Logger Software may be used without the data logger to view, plot and export previously saved files.

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The temperature displayed is the current temperature, updated each second, as measured by the RD-TEMP. The duration, interval, measurement unit, wrap around status, and description text are carried over from the previous launch of the RD-TEMP connected to the computer.

RD-TEMP can display data in Celsius or Fahrenheit. The measurement unit box allows you to set the default plotting or display units, but does not preclude displaying the data in different units later. Select the default unit by clicking in the measurement unit box.

The text entered into the Description Field will be displayed under the X-axis on the plot.

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Notes

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Temperature Resolution



Best resolution 0.35° at +25°C. Covers the widest range.



To start the RD-TEMP, modify the settings as desired, then select **Start**. Disconnect your RD-TEMP after launching. The RD-TEMP's LED will blink once with each measurement. For long periods of use, the LED will blink weakly every two seconds between measurements.

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Off-loading and Plotting Data with Software for Windows

Select **Readout** to off-load RD-TEMP data. The software will prompt for a file name for your data. It is recommended you name your data files with the extension .DTF.

Off-loading RD-TEMP data automatically opens a plot window showing the temperatures seen during the entire usage period. Subselections of data can be made by drawing a box around the data of interest with a mouse. A new plot of the selected data is activated by clicking inside the box, or deselected by clicking outside the box. All data windows are shown in Celsius or Fahrenheit depending on which is chosen with the plot menu.

The plot menu also allows you to select or deselect connecting the points and marking the points (making a small circle around each point).

Plots can be copied and pasted into other Windows applications or saved as pictures that can be opened by drawing programs.

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Temperature Accuracy

RD-TEMP's thermistor has an accuracy of $\pm 0.2^{\circ}$ C between 0°C and +80°C. Below 0°C, the error can increase to as much as $\pm 0.4^{\circ}$ C by -40°C and above +80°C it increases to about $\pm 0.6^{\circ}$ C by +120°C.

Thermal Time Constant

The RD-TEMP's time constant is about 5 minutes in water, and longer in air. Applications requiring a shorter time constant will require mounting the thermistor externally (RD-TEMP-XT) which has a time constant of 3 minutes.



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Intervals and Durations

RD-TEMP can make exactly 1800 measurements. The launch dialog box lets you select the Interval and the Duration of the logging experiment. The table below shows the selectable durations/intervals.

Dur	ation	Interval	Dur	ation	Interval
15	min	0.5 sec	3	days	2.4 min
30	min	1 sec	4	days	3.2 min
45	hr	1.5 sec	6	days	4.8 min
1	hr	2 sec	8	days	6.4 min
1.5	hr	3 sec	12	days	9.6 min
2	hr	4 sec	15	days	12 min
3	hr	6 sec	20	days	16 min
4	hr	8 sec	30	days	24 min
6	hr	12 sec	45	days	36 min
8	hr	16 sec	60	days	48 min
12	hr	24 sec	90	days	1.2 hr
15	hr	30 sec	120	days	1.6 hr
20	hr	40 sec	180	days	2.4 hr
1	days	48 sec	240	days	3.2 hr
1.5	days	1.2 min	360	days	4.8 hr
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3 hr	6 sec	20 days	16 min
4 hr	8 sec	30 days	24 min
6 hr	12 sec	45 days	36 min
8 hr	16 sec	60 days	48 min
12 hr 15 hr 20 hr	24 sec 30 sec 40 sec	90 days 120 days 180 days 240 days	1.2 hr 1.6 hr 2.4 hr
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3 hr	6 sec	20 days	16 min
4 hr	8 sec	30 days	24 min
6 hr	12 sec	45 days	36 min
8 hr	16 sec	60 days	48 min
12 hr	24 sec	90 days	1.2 hr
15 hr	30 sec	120 days	1.6 hr
20 hr	40 sec	180 days	2.4 hr
1 days 1.5 days 2 days	48 sec 1.2 min 1.6 min	240 days 360 days	3.2 hr 4.8 hr

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Exporting Data

Logger Software allows you to export your RD-TEMP's data to an ASCII text file for subsequent import into spreadsheet, charting or database programs. To specify the format for exporting your data, choose Export from the File menu in the software for Windows. The Export Setup Dialog is displayed.

Choose Microsoft Excel, Lotus 123, or custom. The custom option allows you to customize how the date and time will appear in the export file.

Click the Multi-File button to spread the exported data over more than one file.

Note that you must first display the plot, and then choose Export from the File menu. Data from the current plot will be exported.

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Export Setup Dialog Box

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Export Setup Dialog Box

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Data Settings	
Data S <u>e</u> parator:	Comma 💌
Units:	I <u>All</u> Units
Jnits: Temperature (*C) Temperature (*F)	I <u>A</u> llUnts
Jnits: Temperature (*C) Temperature (*F) Sample	
Units: Temperature (°C) Temperature (°F)	I <u>A</u> IUnt:

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Export Setup Dialog Box

Date Format:	Dau Number
Date Format.	
Date/Time <u>S</u> eparator:	Comma
∐ime Format:	Hr:Min:Sec (Incl. Half Seconds)
	Change Time Settings
Data Settings	
Data S <u>e</u> parator:	Comma
<u>U</u> nits:	🗖 All Unit
Temperature 11F1	
Temperature (*FL	
Temperature_IFL -Sample Date_Time_Temperature	(°C)

RD-TEMP Characteristics

Range: -36°F to +253°F (-39°C to +123°C) (Unit limited to +75°C) Sensor: Thermistor, 10K External Probe Options: 6', 3/16" tip, water resistant Memory: 1800 data points stored in EEPROM Battery : Lithium cell, 2 year life Measurement duration: 15 minutes to 360 days Measurement intervals: 0.5 seconds to 4.8 hours Resolution: 0.35°C at +25°C (resolution degrades at extremes) Dimensions: 1.26"H x 1.75"W x .58" (32 mm x 44.5mm x 14.7mm) Weight: 1 ounce

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