

# R-2126 Ambient Temperature and Relative Humidity Data Recorder



Telog's R-2100 series data recorders simplify your monitoring procedures from set up to data reporting. Battery-operated Telog recorders can sample inputs from a variety of sensors, store them in solid-state wrap-around memory and print them out in report-ready hardcopies.

A Telog R-2100 series recorder fits into the palm of your hand or any tight installation site. To put a programmed Telog recorder in service, you need only a convenient location at the recording site and perhaps a couple of screws for mounting. All R-2100 recorders are weather resistant and can be placed wherever the sensors are located. The components are sealed in a compartment protected from the elements. Long lasting batteries free you from any site requirements for wires and conduits. When external power can be used, they become your back-up power to maintain uninterrupted data recording.

The R-2126 is a two-channel recorder with a solid-state integral temperature sensor and a thin-film polymer capacitive humidity sensor for ambient temperature and relative humidity measurements.

For more information on this product or other Telog data recording products, call us at **585.742.3000**, email [TelogSales@telog.com](mailto:TelogSales@telog.com), or visit us at [www.telog.com](http://www.telog.com).

**Replace Chart Recorders**

**Easy Data Collection**

**Battery Powered**

**Tamper Resistant**

**Windows® Software Support**



# R-2126 Specifications

## Temperature Measurements

Range	-28° to 60°C
Resolution	0.12°C
Accuracy	±0.40°C (0° to 40°C) ±0.60°C (-20° to 60°C)

## Relative Humidity (RH) Measurements

Range	5 to 95% RH
Resolution	0.1% RH
Accuracy	±3.0% RH, (5-95% RH @ 23°C)
Stability	±2% RH, 12 months
Temperature dependence	0.1% RH/°C
Hysteresis	±1% RH, excursion of 10 to 90 to 10% RH
Response time	60 sec typical to 90% of total range 120 sec typical to 10% of total range

## Recording

Sample rate	programmable, one sample every 1, 5, 10, 15, 30 or 60 sec
Indicator	flashing LED indicates sampling occurrence and correct programmed operation
Clock accuracy	0.01%
Memory size	6500 values total, dynamically allocated according to required statistics

## Power

Battery Type	one 9-volt alkaline, NEDA 1604A or equivalent
Operating life	1 year minimum at 5-sec sampling rate
Battery shelf life	2 years (refer to individual manufacturer specifications)

## Serial Interface

Type	RS-232C compatible, requires RTS
Baud rates	300, 1200, 9600; auto-selected
Bit format	1 start, 8 data, 1 stop
Connector	9-pin sub "D" socket

## Environmental and Mechanical

Temperature	Operating -25° to 60° Storage -25° to 60°C
Humidity	5-95%, non-condensing; with short-term complete immersion in water.
Enclosure	polycarbonate, UL approved, meets NEMA 4X standards, European IP 65 equivalent
Size	8.0 cm x 12.0 cm x 5.5 cm, 4.7" x 3.1" x 2.2"
Weight	511.2 g, 18 oz.

## Programmable Parameters

Interval period	1 second to 8 hours
Interval resolution	any length divisible into 24 hours, up to 8 hours
Calendar/time	mm/dd/yy; hr:min:sec
Computed data	any combination of the avg., min., or max per interval
Unit ID number	8 alpha-numeric characters

## Support Software

S-3PC	Telogs for Windows
S-3PCL	Telogs for Windows Lite

## Communications

Direct	IBM-PC compatible computers
Indirect	via Telog A-202 Data Transfer Unit (DTU)

## Computer Requirements

For S-3 PC or S-3PCL	IBM compatible computer with a 586/133 MHz or higher processor running on Microsoft Windows 95/98/NT/2000, at least 32 MB of RAM, a hard disk with at least 200 MB of free space and a pointing device.
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## Special Considerations

The relative humidity sensor is unaffected by water condensate and is immune to most reagent vapors. However, long-term exposure to extreme temperature or atmospheric contaminants will result in accuracy degradation and should be avoided if possible.



## Telog Instruments, Inc.

830 Canning Parkway, Victor, NY 14564-8940, USA  
Phone: 585.742.3000 • Fax: 585.742.3006  
E-mail: TelogSales@telog.com • www.telog.com

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