R6001

REED INSTRUMENTS

Thermo-Hygrometer



Instruction Manual

WARRANTY 1 YEAR WARRANTY

REED Instruments
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Introduction

Thank you for purchasing your R6001 Thermo-Hygrometer. Please read the following instructions carefully before using your instrument. By following the steps outlined in this manual your meter will provide years of reliable service.

Product Quality

This product has been manufactured in an ISO9001 facility and has been calibrated during the manufacturing process to meet stated product specifications. If a certificate of calibration is required please contact the nearest authorized REED distributor or authorized Service Center. Please note an additional fee for this service will apply.

Safety

Never attempt to repair or modify your instrument. Dismantling your product, other than for the purpose of replacing batteries, may cause damage that will not be covered under the manufacturer's warranty. Servicing should only be provided by an authorized service center.

Features

- Easy-to-use, intuitive design
- Dual LCD readout displays temperature and humidity
- User selectable °F/°C
- High Sampling Rate of 2.5 times/sec
- Data hold, Min/Max and Relative functions
- Low battery indicator and auto shut-off

Specifications

Temperature

Measuring Range:	-4 to 140°F (-20 to 60°C)
Accuracy:	±1.6°F (0.8°C)
Resolution:	0.1°F/°C

Humidity

Measuring Range:	0 to 100% RH
Accuracy:	±3% RH
Resolution:	0.1% RH

General Specifications

Display:	Dual Display, LCD
Data Hold:	Yes

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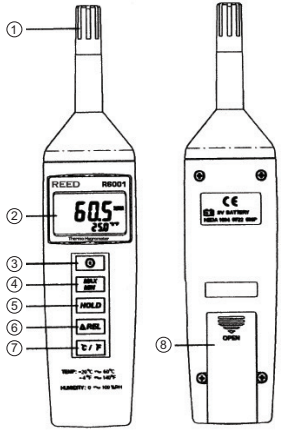
Min:	Yes
Max:	Yes
Relative Function:	Yes
Sampling Rate:	2.5 times/sec.
Auto Shut-off:	Yes (30 mins/off)
Low Battery Indicator:	Yes
Power Supply:	9V battery
Product Certifications:	CE
Operating Temperature:	-4 to 140°F (-20 to 60°C)
Storage Temperature:	14 to 140°F (-10 to 60°C)
Operating Humidity Range:	10 to 80%
Dimensions:	9.5 x 2.1 x 1.3" (240 x 54 x 34mm)
Weight:	6.4oz (180g)

Included

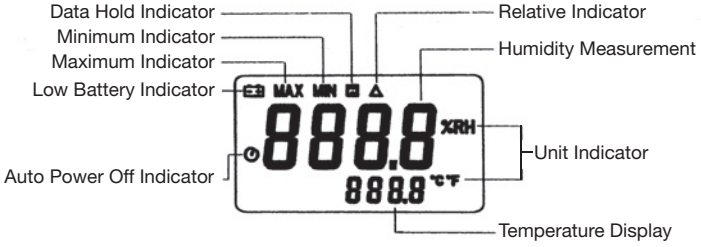
- Carrying Case
- Battery

Instrument Description

1. Sensor Protective Cap
2. LCD Display
3. Power Button
4. MAX/MIN Button
5. Data Hold Button
6. Relative Function Button
7. Unit of Measure Button
8. Battery Cover



Display Description



Operating Instructions

Press the ON/OFF button to turn the meter ON or OFF.

Unit of Measure Selection (Temperature)

When the meter is powered on press the **°C/°F** button to toggle between Celsius and Fahrenheit.
Note: The default unit of measure is Celsius (°C). The meter will automatically save the last selected unit of measure when turned off.

Data Hold

Press the **HOLD** button to freeze the current reading on the display. Press the button again to resume normal operation.
Note: When the Data Hold function is enabled the **▲REL**, **MAX/MIN**, and **°C/°F** buttons are disabled.

Relative Function

Press the **▲REL** button to store the current measurement. The meter will display the difference between any new measurement and the stored measurement. Press the **▲REL** button again to exit Relative Function mode and resume normal operation.

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MAX/MIN Function

1. Press the **MAX/MIN** button to access Maximum and Minimum modes.
2. When pressing the **MAX/MIN** button once, the MAX Indicator will appear on the display. The maximum temperature and maximum humidity values are displayed and will automatically update when new maximum data values are measured.
3. Press the **MAX/MIN** button again and the MIN indicator appears on the display. The minimum temperature and minimum humidity values are displayed and will automatically update when new minimum data values are measured.
4. Press the **MAX/MIN** button a third time and both the MAX and MIN indicators will blink continuously. The Maximum & Minimum values will automatically update in the Max/Min memory while the current temperature and humidity measurements are displayed. To view the Max/Min measurements during this mode press the **MAX/MIN** button at any time to toggle through stored measurements.
5. To exit MAX/MIN mode and resume normal operation, press and hold the **MAX/MIN** button for two seconds.

Note: When in MAX/MIN mode, the **▲REL** and **°C/°F** buttons are disabled.

Auto Power Off

To preserve battery life, the meter is programmed to turn itself off after 30 minutes of inactivity. To disable this feature, press and hold the **HOLD** button while powering on the meter. When the meter turns on, release both buttons simultaneously. The Auto Power Off indicator will not appear on the display, confirming this feature is now disabled. If the meter is turned off then back on, the "Auto Power Off" feature will be enabled again.

Humidity Calibration Procedure

In order to calibrate the meter humidity calibration standards are required (REED R9933, R9975 or R9980). If the meter has been exposed to extreme conditions or it has not been used in a long period of time the meter should be calibrated by following steps 1 through 7 below.

1. While the meter is off, press the **HOLD**, **°C/°F**, and POWER buttons simultaneously and release.

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2. When the LCD flashes, press the **▲REL** button to enter calibration mode. This will be indicated by "CAL 1" on the LCD.
3. Insert the tip of the meter into the 33%RH Humidity Calibration Standard (REED R9933) and press the **MAX/MIN** button once the reading has stabilized which may take up to 10 minutes.
4. The calibration adjustment will be confirmed by a long beep.
5. The meter will then display "CAL 2" to calibrate the second calibration point (75%). Insert the tip of the meter into the 75%RH Humidity Calibration Standard (REED R9975) and press the **MAX/MIN** button once the reading has stabilized which may take up to 10 minutes.

Disregard the actual final reading on the meter once it has stabilized before pressing the **MIN/MAX** button.

6. The calibration adjustment will be confirmed by a long beep.
7. After both calibrations are complete, the meter will resume normal operation.

Note: The calibration steps can be cancelled at any point by pressing the ON/OFF button.

Restoring Factory Settings

1. Turn the meter off.
2. Press the **HOLD**, **°C/°F**, and POWER button simultaneously, then release.
3. When the LCD flashes, press the **MAX/MIN** button to restore factory default settings.
4. A long beep will confirm factory settings have been restored. The meter will then resume normal operation.

Battery Replacement

When the low battery indicator appears on the display, the battery should be replaced. Remove the battery cover on the back and insert a new 9V battery.

Accessories and Replacement Parts

CA-05A Soft Carrying Case

R9933 33% Humidity Calibration Standard

R9975 75% Humidity Calibration Standard

R9980 33% and 75% Humidity Calibration Kit

Don't see your part listed here? For a complete list of all accessories and replacement parts visit your product page on www.reedinstruments.com.

Applications

- Environmental studies
- Food distribution
- HVAC/R system installation
- Greenhouses and industrial spaces
- Saunas
- Humidors
- Museums
- Lab Monitoring

Product Care

To keep your instrument in good working order we recommend the following:

- Store your product in a clean, dry place.
- Change the battery as needed.
- If your instrument isn't being used for a period of one month or longer please remove the battery.
- Clean your product and accessories with biodegradable cleaner. Do not spray the cleaner directly on the instrument. Use on external parts only.

Product Warranty

REED Instruments guarantees this instrument to be free of defects in material or workmanship for a period of one (1) year from date of shipment. During the warranty period, REED Instruments will repair or replace, at no charge, products or parts of a product that proves to be defective because of improper material or workmanship, under normal use and maintenance. REED Instruments total liability is limited to repair or replacement of the product. REED Instruments shall not be liable for damages to goods, property, or persons due to improper use or through attempts to utilize the instrument under conditions which exceed the designed capabilities. In order to begin the warranty service process, please contact us by telephone at 1-877-849-2127 or by email at info@reedinstruments.com to discuss the claim and determine the appropriate steps to process the warranty.

Product Disposal and Recycling



Please follow local laws and regulations when disposing or recycling your instrument. Your product contains electronic components and must be disposed of separately from standard waste products.

Product Support

If you have any questions on your product, please contact your authorized REED distributor or REED Instruments Customer Service by phone at 1-877-849-2127 or by email at info@reedinstruments.com.

Please visit **www.REEDINSTRUMENTS.com** for the most up-to-date manuals, datasheets, product guides and software.

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