

TRACEABLE® HYGROMETER INSTRUCTIONS

SPECIFICATIONS

Humidity Range: 10 to 95%
Resolution: 0.1%RH
Accuracy: ±2%RH mid-range, otherwise ±4%
Temperature Range: 0 to 199.9° F
Resolution: 0.1°
Accuracy: ±1°C between 0° and 40°C, otherwise ±2°C.

Computer Output:

Baud rate: 1200 bps
Data bit: 7
Stop bit: 1
Parity: none
Format: Txxx.xF:Hxx.x% cr lf
 Txxx.xC:Hxx.x% cr lf

Storage Temp:

-20°C to 50°C

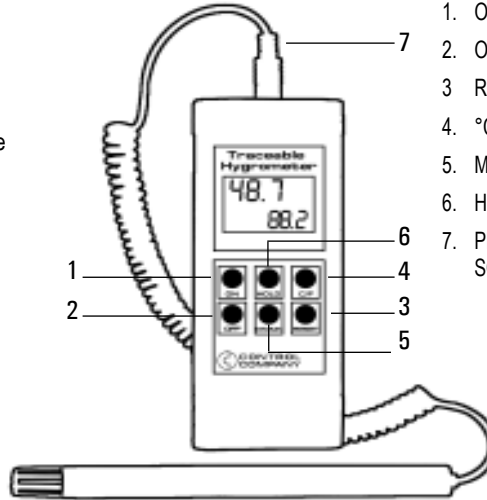
Operating Temp:

0°C to 60°C

Power:

One (1) 9-volt alkaline battery

Figure 1



DESCRIPTION:

- | | |
|-----------------|-------------------------------------|
| 1. ON key | Power on |
| 2. OFF key | Power off |
| 3. RESET key | Reset Min/Max memory |
| 4. °C / °F key | Switch between display of °C and °F |
| 5. MN/MX key | Minimum/Maximum selection |
| 6. HOLD key | Hold display |
| 7. PROBE SOCKET | For probe connection |

OPERATION

MEASURING MODE

This is the basic function to measure temperature (°F or °C) and relative humidity. Press the ON key (1, Fig. 1) to start the measurement.

SLEEP MODE OPTION

1. The unit has a non-sleep mode and a 20 minute sleep mode.
2. To deactivate the sleep mode, turn off the meter (2, Fig. 1), and then press "ON" (1, Fig. 1) and "MN/MX" (5, Fig. 1) keys simultaneously, until "nSL" is displayed.

MN/MX MODE

Read minimum and maximum values by pressing MN/MX key (5, Fig. 1) sequentially. Press it again to return to normal mode. The meter will automatically return to normal mode in 10 seconds.

HOLD MODE

Press the HOLD key (6, Fig. 1) once to hold the current measurement. The screen will display "HOLD". Press HOLD again to return to normal mode.

COMPUTER OUTPUT

1. Plug the earphone jack of the cable into the computer port socket on the meter and connect 9-pin D-sub to the computer's COM1 or COM2.
2. Press "ON" key (1, Fig. 1) to start the measurement.

ERROR MESSAGES

1. If the display shows "OP" and the unit continually beeps, then the probe is not connected properly.
2. If display shows 0% or 99% for an extended period of time, then probe is damaged and needs to be replaced.
3. If the display shows Er 1, Er 3 or Er 4 with a beep, then there has been a circuit error.
4. If the display shows Er 2 with a beep, then there has been improper calibration, the probe is damaged, or the humidity reference needs to be changed.

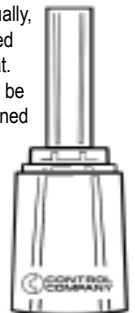
ALL OPERATIONAL DIFFICULTIES

If this Hygrometer does not function properly for any reason, please replace the battery with a new Cat. No. 1112 battery. Low battery power can occasionally cause any number of "apparent" operational difficulties. Replacing the battery with a new fresh battery will solve most difficulties.

Accessories

Cat. No.

- 4394 33% RH Accessory Calibration Standard** with calibration instructions (Not Traceable, but an ideal standard for checking the unit.)
- 4395 75% RH Accessory Calibration Standard** with calibration instructions (Not Traceable, but an ideal standard for checking the unit.)
- 8045 Data Acquisition System Accessory** Powerful and easy to use computer data capture/data logging program works with Traceable® Instruments with computer output. Records interval readings from 1 to 10,000 seconds; displays minimum/maximum readings; and utilizes an alarm mode that permits the user to be notified visually, audibly, and by email when an alarm is triggered. Data is stored to a file that can be printed in any report or spreadsheet format. Networking server/client capability allows the captured data to be monitored on a remote workstation and/or by email. It is designed to work with Windows® 98/Me/NT/2000/XP/Vista. Includes a CD, a 6-foot cable (supplied USB and serial connections) that plugs into the instrument and computer. Accessory extension cables expand cable length to 300 feet.



1112 Replacement battery

Cat. No. 4394 / 4395

Warranty, Service, or Recalibration

For warranty, service, or recalibration contact:

CONTROL COMPANY

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Control Company is ISO 9001 Quality-Certified by DNV and ISO 17025 accredited as a Calibration Laboratory by A2LA

Cat. No. 4185

Traceable® Hygrometer
 Rev. 2 040709

92-4185-00