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.

RS–232 Output:
Baud rate: 1200 bps
Data bit: 7
Stop bit: 1
Parity: none
Format: Txxx.xF:Hxx.x% cr 1f
Txxx.xC:Hxx.x% cr 1f
Storage Temp: -20°C to 50°C
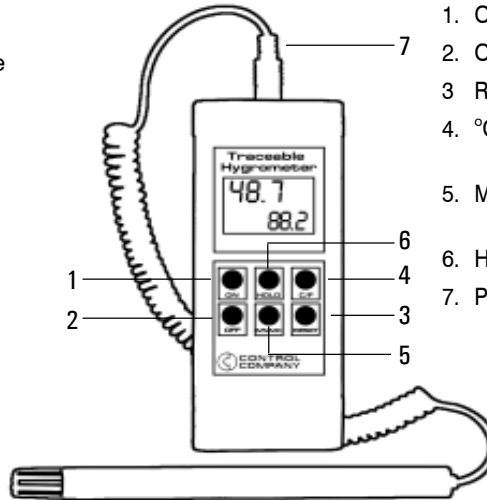**Operating Temp:** 0°C to 60°C
Power: One (1) 9-volt alkaline battery

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.

RS–232 Output
1. Plug the earphone jack of the cable into the RS–232 socket on 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.
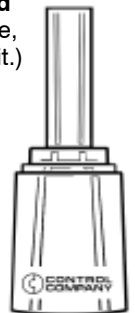3. If the display shows Er 1, Er 3 or Er 4 with a beep, then there has been a circuit error.
4. If the display shows Er 2 with a beep, then there has been improper calibration, the probe is damaged, or the humidity reference needs to be changed.

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
Captures, displays, and stores readings on any PC computer. Information can be imported into spreadsheets, word processors, databases, and statistical program. Supplied complete with serial cable and CD.
1112 Replacement battery

Cat. No. 4394 / 4395

Warranty, Service, or Recalibration
For warranty, service, or recalibration contact:

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Cat. No. 4185   **Traceable® Hygrometer**   **92-4185-00**
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