

# 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° between 32° and 104.0°, otherwise ±2°C.

**RS-232 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

## 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.

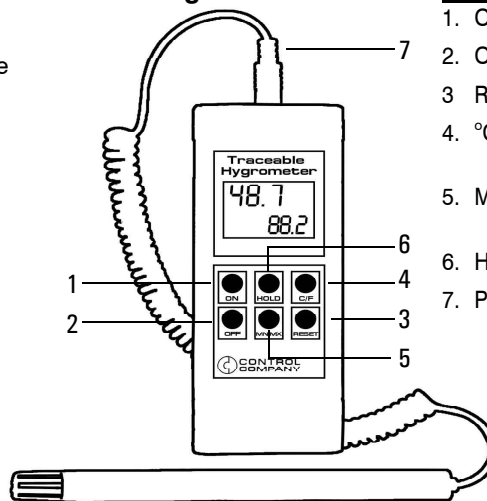
### RS-232 Output

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.

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                |

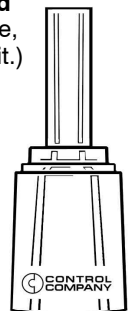
3. If the display shows Er 1, Er 3 or Er 4 with a beep, then there has been a circuit error.
4. If the display shows Er 2 with a beep, then there has been improper calibration, the probe is damaged, or the humidity reference needs to be changed.

### 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

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