

TH-1

Relative Humidity / Temperature Probe Style Meter

**Users Manual** 

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All test tools returned for warranty or non-warranty repair or for calibration should be accompanied by the following: your name, company's name, address, telephone number, and proof of purchase. Additionally, please include a brief description of the problem or the service requested and include the test leads with the meter. Nonwarranty repair or replacement charges should be remitted in the form of a check, a money order, credit card with expiration date, or a purchase order made payable to Amprobe® Test Tools.

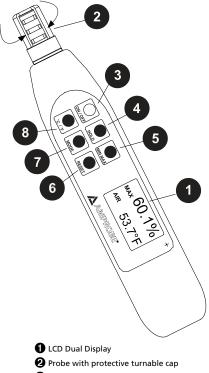
# In-Warranty Repairs and Replacement – All Countries

Please read the warranty statement and check your battery before requesting repair. During the warranty period any defective test tool can be returned to your Amprobe® Test Tools distributor for an exchange for the same or like product. Please check the "Where to for a list of distributors near you. Buy" section on Additionally, in the United States and Canada In-Warranty repair and replacement units can also be sent to a Amprobe® Test Tools Service Center (see address next page).

# Non-Warranty Repairs and Replacement – US and Canada

Non-warranty repairs in the United States and Canada should be sent to a Amprobe® Test Tools Service Center. Call Amprobe® Test Tools or inquire at your point of purchase for current repair and replacement

In



- 3 ON/OFF
- 4 Data HOLD
- 6 MIN/MAX
- **6** RESET
- **7** MODE
- **3** °C / °F Pushbutton

# TH-1 Relative Humidity / Temperature Probe Style Meter

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### SYMBOLS

Δ	Refer to the manual	C€	Complies with EU directives
C	Conforms to relevant Australian standards.	<b>*</b>	Do not dispose of this product as unsorted municipal waste.

# ⚠ Warning and Precautions

Do not put the probe in contact with liquids. That may cause permanent damage.

#### INTRODUCTION

Congratulations on your purchase of the TH-1 temperature probe style meter. This meter is equipped with a protective turnable sensor cap, a patented design, to protect the sensor when not in use.

A convenient instrument to measure temperature from -20°C to 60°C (4° to 140°F), Relative Humidity up to 99% RH, and the dew point (DP) or wet bulb (WB) for temperature and humidity.

### **Unpack and Inspection**

- 1 x TH-1 Temperature Probe style meter
- 1 x Battery CR2032
- 1 x Manual

#### **OPERATION**

- 1. Before you start any measurement, please rotate the cap clockwise or counterclockwise to expose the sensor.
- 2. Press ON/OFF yellow pushbutton to turn power ON or OFF. You will see a full display on the screen for one second.(See Fig.1) The meter will start measuring the temperature and humidity and display both readings at the same time. (See Fig.2)
- 3. Press HOLD until "HLD" appears on the screen to freeze the reading on the display. Press HOLD again to cancel the HOLD function and continue with the measurement.(See FIG.3)
- 4. Press MIN/MAX to display the minimum reading of the actual measurement (Temp & RH). Press MIN/MAX again to display the maximum reading. Press MIN/MAX again to return the real time measurement.(See Fig.4)
- 5. Press °C / °F pushbutton to switch between degrees Celsius to degrees Fahrenheit.
- 6. Press MODE to toggle between "AIR", "DP", and "WB" readings.
- 7. Press and hold RESET to clear current MIN and MAX readings from memory

# **Auto Power Off**

The meter will turn itself off after 20-min. To override Auto Power Off function, press ON/OFF & HOLD keys simultaneously. The display will show "n". When "n" appears, release the ON/OFF button. The meter will now be in Non-sleep mode for long time operation purposes. (See Fig.5)

## BATTERY REPLACEMENT

- 1. Turn off the meter. Use a coin to open the battery cover.
- 2. Put the battery (CR2032) with the "+" faces up.
- 3. Replace the cover.

#### TROUBLESHOOTING

POWER ON BUT NO DISPLAY

- Make sure you press the "ON/ OFF" key for more than 100mS.
- Check the battery conditions and replace if necessary

**DISPLAY DISAPPEARS** 

- Check for low battery indicator before the display is off. If the low battery indicator appears, replace the battery.
- Turn on the meter by pressing "ON/OFF+HOLD" keys to disable Auto Power Off.

E02-Out of the lowest limit.

E03-Out of the highest limit.

E04-Check error message of the original data.

E11-Calibration required. The humidity sensor accuracy can not be calibrated by the user due to special procedures required. Please contact a qualified calibration house for service.

E33-Return the meter for repair

# **SPECIFICATIONS**

Size: 17.5 × 4.2 × 1.6cm (6.89 x 1.65 x 0.63 in)

Battery: 150 Hours

Power consumption: < 2.0mA

Sensor: Electronic Capacitance Polymer Film Sensor

Range:

Relative Humidity: 0 to 100% Temperature: -20 to 50°C (-4 to 122°F)

DP/WB: -20 to 59.9°C / -5 to 59.9°C (-4 to 139.8°F / 23 to 139.8°F)

. Relative Humidity:  $\pm 4\%$  from 10 to 95%RH and  $\pm 5\%$  for other RH range @ 25°C / 77°F

Temperature Coefficient: 0.1 x (specified accuracy) / °C ( < 25 °C or > 25 °C)

Temperature:  $\pm 0.6$ °C /  $\pm 1$ °F

Resolution: 0.1%, 0.1°C / 0.1°F

The meter conforms to the following standards:

EN 50081-1/1992 : EN 55022 EN 50082-1/1997 : EN 55024 (EN 61000-4-2/-3/-8, ENV 50204)