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STRUMENTI & SERVIZI
per il sistema qualità

TH-300 User's Guide

TEMPERATURE&HUMIDITY METER



Introduction

Congratulations on your purchase of the Precision Hygro-Thermometer. This device measures Humidity, Air Temperature. Advanced features include Auto Power Off, and MAX/MIN reading. Careful use of this meter will provide years of reliable service.

Specifications

Function	Range and Resolution	Accuracy
Humidity	0.0 to 100.0%RH	±3.5%RH (40% to 60%) ±4%RH (20 to 40% and 60 to 80%) ±5%RH (0 to 20% and 80 to 100%)
Temperature	-4.0 to 140.0°F (-20.0 to 60.0°C)	±2°C (-40 to -10 and +40 to +70°C) ±1°C (-10 to +40°C)

Display Dual LCD

Response Time: <15 sec. (90% of final value in moving air)

Sensor Type Humidity: Precision capacitance sensor
Temperature: Thermistor

Absolute Humidity 0 to 500g/m³, 0 to 218.5gr/ft³
(calculated from RH and Air temperature measurements)

Operating Conditions 32 to 122°F (0 to 50°C); < 80% RH
non-condensing

Storage Conditions -40 to 185°F (-40 to 85°C); <99% RH
non-condensing

Power Supply 9 Volt battery

Battery Life Approx. 48 hours

Dimensions 210(L) x 55(W) x 32(H)mm;

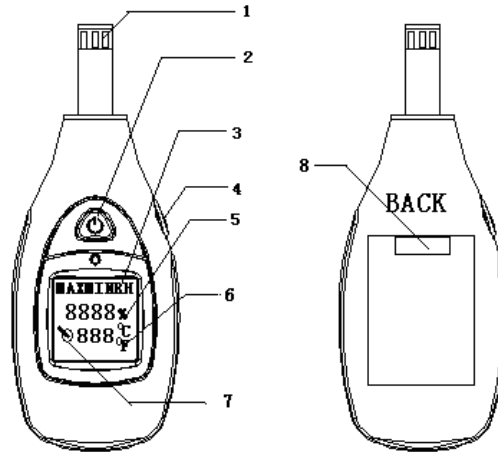
Weight 135g (including battery)

Meter Description

1. Humidity & Temperature Sensor
2. LCD Display
3. Power ON/OFF button
4. Auto Backlight
5. °C/°F button(back of meter)

MIN/MAX button

Note: The battery compartment is located on the rear of the instrument



Display Description

1. Humidity & Temperature Sensor
2. Power ON/OFF butoon
3. MAX/MIM/RH display
4. MAX/MIN button
5. %
6. °C/°F
7. LOW VOLTAGE
8. °C/°F button

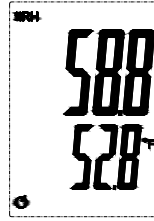
Operation

Power

Press the power button() to turn power on or off.

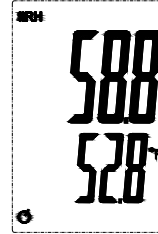
Taking measurements

1. Hold the probe in the area to be tested.
2. Allow adequate time for readings to stabilize.
3. Pressing the °C/°F button toggles the display between Temperature (°F), Temperature (°C).



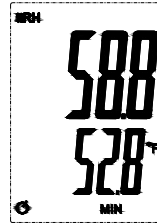
Temperature measurements

1. To select the temperature measurement, press the °C/°F button(back of meter) until °C or °F appears in the lower right.
2. Temperature is now displayed.



Minimum (MIN) Maximum (MAX) Function

The MIN/MAX mode allows the user to view only the lowest (MIN) or highest (MAX) readings.



Press the MIN/MAX button once and "MAX" appears on the display. The LCD is now displaying the maximum reading of the selected parameter in the display. The display will not change until a higher reading is registered.

Press the MIN/MAX button again and "MIN" appears on the display. The LCD is now displaying the minimum reading of the selected parameter in the display. The display will not change until a lower reading is registered.

Press the MIN/MAX button for 3 seconds to exit the MIN/MAX mode, and the "MAX" or "MIN" icon will disappear.

Note: While powering on the meter per time, it restarts recording Minimum and Maximum and the recordings don't stop until the meter is turned off.

Backlight

Auto-Backlight.



Automatic Power OFF

The meter has a default setting that automatically shuts the meter off after 30 minutes (indicated by the symbol on the display). This battery saving feature can be disabled. To disable the auto power off function, simply press and hold the MAX/MIN button while powering on. The symbol will not appear when auto power off has been disabled. You can enable it in the same way.



Maintenance

Cleaning and storage

1. The meter should be cleaned with a damp cloth and mild detergent when necessary. Do not use solvents or abrasives.
2. Store the meter in an area with moderate temperature and humidity (refer to the operating and storage range in the specifications chart earlier in this manual).

Battery Replacement

When the battery power falls low, the battery symbol will appear on the LCD. Replace the three 9Volt batteries by removing the battery compartment cover to access the battery compartment. Ensure that the compartment cover is securely fastened when finished.