INSTRUCTIONS DSP1000

Introduction / Operation

This meter has been designed to combine the functions of a humidity meter, a temperature meter with wet bulb and dew point temperatures. It is an ideal for laboratories, industrial, engineering or other professional uses.

Humidity and Air Temperature Measuring

1. Hold the Probe in the area to be tested and allow readings to stabilize.
2. Press °F, °C, dew point, WBT button to enter desired measurement mode.
3. Read the relative humidity, air, dew point and bulb temperature,

Note: Do not immerse the probe in liquid; it is intended for use in air only.

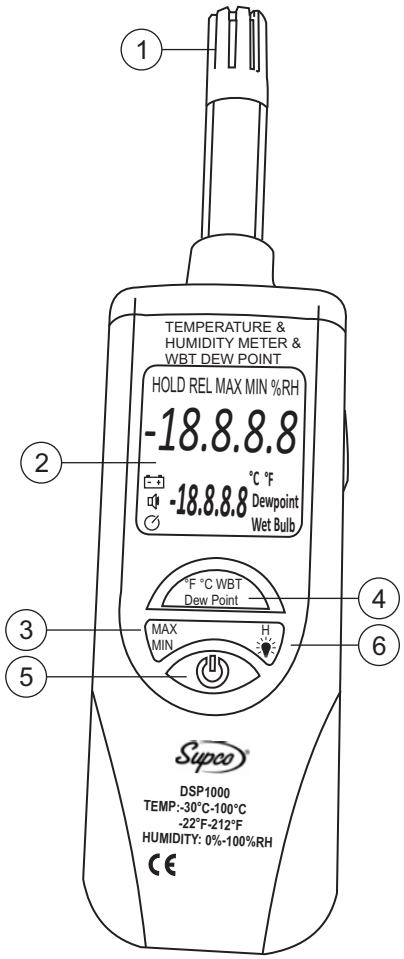
Warning: Don't expose the sensor to direct sunlight. Don't touch or manipulate the sensor.

Features

- Fast Response Time %RH: 10S (90% @ 25°C/77°F still air)
- High Accuracy
- Dew Point Temperature (-30°C-100°C/-22°F-212°F)
- Wet Bulb Temperature (0°C-80°C/32°F-176°F)
- Resolution 0.01%RH, 0.01°C/0.01°F
- Max Hold and Data Hold Function
- Dual Display Temperature and Humidity
- Auto Power Off, Disable Sleep Mode
- Back-light Display

Specifications

Display: Dual digital LCD with back light
Sensor Type: Single chip relative humidity and temperature multi-sensor module with calibrated output.
Response Time: %RH: 10S (90% @ +25°C/77°F still air)
Accuracy Note: Specified for 64-82°F (18-28°C) ambient temperature range.
Sampling Rate: 2.5 samples per second
Polarity: Automatic, (-) negative polarity indication
Over-range: "OL" mark indication
Low Battery indication: The [- +] is displayed when the battery voltage drops below the operating level.
Operating Conditions: 32 to 104°F (0 to 40°C); <80% RH non-condensing
Storage Conditions: 14 to 140°F (-10 to 60°C); <80% RH non-condensing
Auto Power Off: Automatically shuts down after approx. 15 minutes of inactivity. (Sleep Mode)
Note: To turn off Sleep Mode, Hold ***Back-light*** button down then press ***Power*** button. After the full display appears, release both buttons. The unit will not power off now.
Power: 9V, 6LR61
Size: 225mm x 45 mm x 34 mm (8.85" x 1.77" x 1.34")
Weight: 200g (0.44 lbs.)
Humidity: 0%~100%RH
Temperature: -30°C~100°C, -22°F~212°F
Resolution: 0.01%RH, 0.01°C/°F
Humidity Accuracy: ±2% RH @ 25°C, 20%~80% RH
±2.5% RH @ other ranges
Note: The measuring range is from 0% to 100%, but above 80% and below 20% the deviation is unspecified.
Air Temp. Accuracy: ±0.5°C / ±0.9°F @ 25°C
±0.8°C / ±1.5°F all other ranges



1. **Humidity/Air Temperature Probe** with Semiconductor inside.
2. **LCD:** Shows units °C, °F, %RH dew point, wet bulb, low battery, Max/Min, Hold and back light.
3. **Min/Max Button:** Press Max/Min button to enter Max/Min recording mode (manual range only). Select the proper range before selecting Max/Min to ensure the reading will not exceed the testing range. Press once to select Min. Press again to select the Max. Press and hold for 3 seconds to turn off Max/Min recording.
4. **°F, °C, WBT, Dew Point Button:** Press to select measurement type.
5. **On/Off Button:** Turn meter on/off.
6. **Hold/Back Light Button:** Press to enter hold function. Press button for over 2 seconds to turn on or off back light.

Battery Replacement: Open battery compartment located on back of meter. replace with a 9 volt 6LR61 type battery.