CENTER® 316

HUMIDITY TEMPERATURE METER

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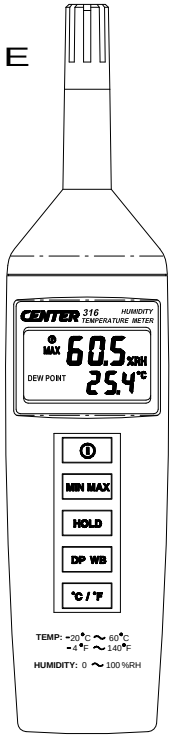

Instruction Manual

CENTER Technology Corporation

PST
PACIFIC SENSOR TECHNOLOGIES
MEASURING THE WORLD AND BEYOND

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I. Introduction:

This instrument is a digital meter that measures both humidity and temperature.

II. Specifications:

Display: Dual display

Measurement Range:

Humidity: 0%RH ~ 99%RH

Temperature: -20°C ~ 60°C
(-4°F ~ 140°F)

Wet Bulb Temperature Range:
-20°C ~ 60°C
(-4°F ~ 140°F)

Dew Point Temperature Range:
-20°C ~ 60°C
(-4°F ~ 140°F)

Accuracy: (at 23°C ± 5°C)

Range	Accuracy
5% RH ~ 95% RH	±3% RH
-20°C ~ 60°C	±0.8°C
-4°F ~ -140°F	±1.6°F

Resolution: 0.1%RH , 0.1°C / 0.1°F

Response Time: (@ t90; in slowly moving air)
Humidity: 180 sec
Temperature: 10 sec

Operating Conditions: 0°C ~ 40°C; <80% RH

Storage Conditions: -10°C ~ 60°C; <70% RH

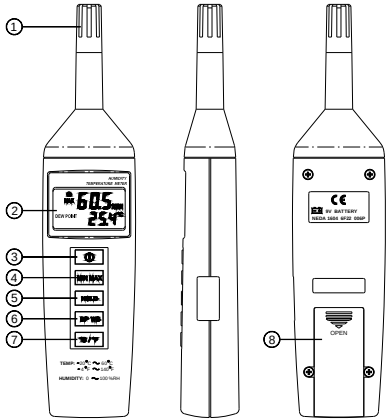
Altitude: Up to 2000 meters.

Sample Rate: 2.5 times per second

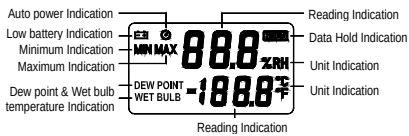
Battery: 9 V Battery,
NEDA 1604 or JIS 006P
or IEC6F22

Battery Life:	85-hours continuous; (with alkaline battery)
Dimension:	240x54x34 mm 9.5x2.1x1.3 inches
Weight:	Approx.180g (6.4 oz.)
Accessories:	Battery, instruction manual

III. Symbols and Buttons:



① Dust cover	⑤ HOLD button
② LCD display	⑥ DP/WB/Ambient Temperature button
③ ON/OFF button	⑦ °C/°F select button
④ MAX/MIN button	⑧ Battery cover



IV. Operation Instructions:

4.1 Power-Up:

Press the ⏻ key to turn the Humidity/Temperature meter ON or OFF.

4.2 Selecting Temperature Units:

When the meter is first powered on, the default scale setting is set to the Celsius (°C) scale. To change to Fahrenheit (°F) press the "C/°F" button. Press again to revert to Celsius. The next time the meter is turned on, the scale setting will be the same as it was when you powered off last time.

4.3 Data-Hold Operation:

The present reading may be held on the display by pressing the "**HOLD**" button. When the held data is no longer needed, release the data-hold operation by pressing the "**HOLD**" button again.

When the meter is in the Data Hold mode, the **"**REL**", "**MAX/MIN", and "°C/°F" buttons are disabled.

4.4 DP/WB/Ambient Temperature Operation:

The Meter displays ambient temperature when first turned on. To display dew point(DP) temperature , press WB/DP once . Press DP/WB again to switch to wet bulb (WB) temperature. Pressing DP/WB a third time returns the Meter to ambient temperature. The display indicates when dew point and wet bulb temperature are selected.

4.5 MAX/MIN Operation:

Pressing the "MAX/MIN" button places the meter in the MAX/MIN mode. Under this mode the maximum value and minimum value is kept in the memory simultaneously and updated with every new data reading.

Pressing the MAX/MIN button will display the MAX indicator and the Maximum value on the display. Pressing **MAX/MIN** again will display the MIN indicator and the Minimum value on the display.

Pressing **MAX/MIN** again causes the MAX and MIN indicators to blink together. This means that these data have been updated in the memory and the reading is the present temperature and humidity.
When the meter is in the **MAX/MIN** mode, the **"**°C/°F**"** buttons are disabled. To exit the MAX/MIN mode, one may press and hold **MAX/MIN** for two seconds.

4.6 Auto Power Off:
By default, when the meter is powered on, it is in the auto power off mode. The meter will power itself off after 30 minutes if no key operation is performed. To disable the auto power off feature, press and hold the **HOLD** button and then power on the meter, The auto power off symbol will disappear to indicate that auto power off is disabled.

4.7 Low Battery Condition:
When the battery voltage is under proper operation requirement, the symbol will show on the LCD and the battery needs to be replaced with new one.

Optional Accessories:
33%RH Humidity standard
75%RH Humidity standard

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GCA000316-02000

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