Instruction Manual

RS-1361C

**Humidity / Temperature Meter
Datalogger with RS-232 to USB Interface**

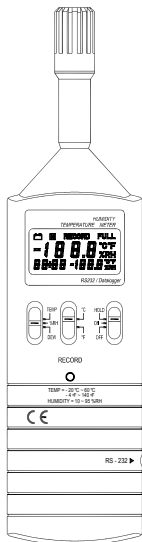EN FR IT DE ES

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1. INTRODUCTION

❑ Read the following information carefully before attempting to operate or service the meter.

Environmental conditions:

① Altitude; 2000 meters max.

② Relatively humidity; 95% max.

③ Operating temperature; 0 to 60°C

④ Indoor use only.

$C\epsilon$ Complies with EMC Directive 89/336/EEC

2. SPECIFICATIONS

Measurement range: Humidity; 10% to 95% RH
Temperature: -20 to +60°C,
-4 to +140°F

Resolution: 0.1% RH, 0.1°C, 0.1°F

Accuracy (after calibration):
Humidity; 3%RH (at 25°C, 30 to 95% RH).
5%RH (at 25°C, 10 to 30% RH).
Temperature; 0.8°C, 1.5°F

Sensor Type: Humidity; Precision capacitance sensor.
Temperature; Semiconductor sensor.

Response time: Humidity; 45% RH to 95% RH <=3 min.
95% RH to 45% RH <= 5 min.
Temperature: 1°C/2 seconds.

Sampling Rate: 1 sample/second.

Memory Capacity: 7900 data records, with total of
255 sets of results.

Logging interval: Adjustable between 1 and 65,535 seconds.

Auto power off : 30 minutes (can be changed by PC
software).

Operating temperature & humidity: 0 to 60°C, below 95% RH.

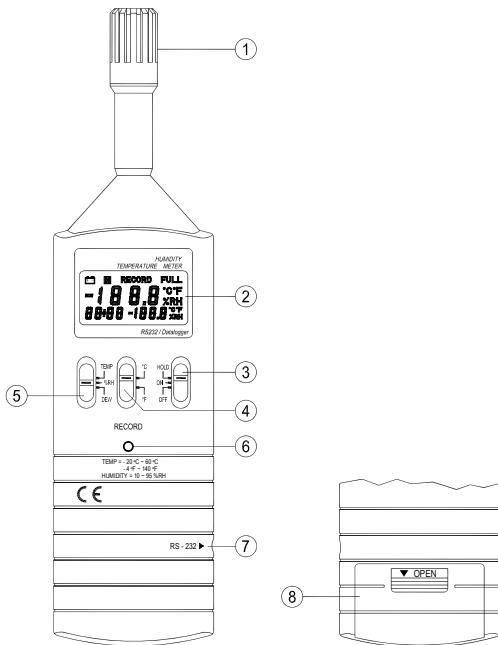Storage temperature & humidity: -10 to 60°C, below 70% RH.

Power supply: Qty 1 x 9V Battery type 006P 9V, or
IEC 6F22, or NEDA 1604.

Battery life: Approximately 100 hours.

Dimensions: 270x68x25mm

Accessories: Instruction manual, Battery, Carry case,
RS-232 to USB cable, Data download
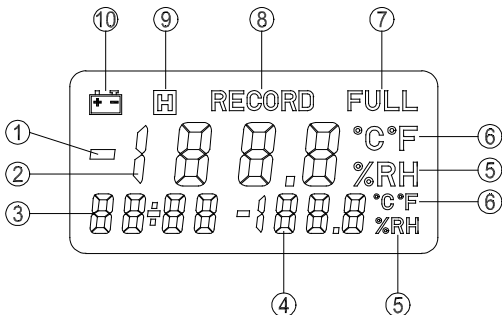software.

3. FRONT PANEL LAYOUT

① Humidity & Temp. sensor cap

② Display

③ Power ON/OFF & HOLD function switch.

④ Measurement units select switch.

⑤ LCD main display and secondary display

⑥ Data RECORD button

⑦ RS-232 to USB socket (3.5mm jack)
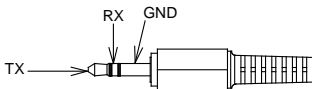
⑧ Battery cover

4. LCD DISPLAY LAYOUT

① Minus

② Measuring value (main display)

③ Time information

④ Measured value (secondary display)

⑤ Units "%RH"

⑥ Unit "°C, °F"

⑦ Memory full indicator

⑧ Data recording indicator

⑨ Hold function indicator
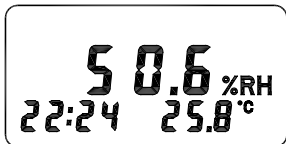
⑩ Low-battery indicator

5. OPERATING INSTRUCTIONS

① Push the power switch to the "ON" position.

② Set units to °C or °F as required.

③ Change to main display or secondary display as required.
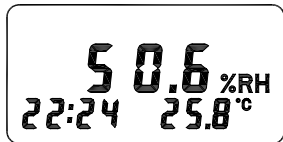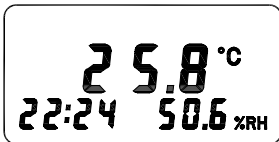
④ The humidity and temperature values will be displayed.

6. DATA RECORDING AND ERASING

① To record one set of data:

5 0.6 %RH
22:24   25.8 ℃

⇨ Press the "RECORD" button once.

RECORD
5 0.6 %RH
22:24   25.8 ℃

⇨ The "RECORD" will be displayed on the LCD screen for about 0.5 seconds.

② To record data continuously:

RECORD
5 8.6 %RH
23:24   25.8 ℃

⇨ Press and hold the "RECORD" button for 3 seconds and "RECORD" will flash once per second.

③ To stop recording:

```
RECORD
 58.6 %RH
23:34  25.8 ℃
```

⇨ Press the "RECORD" button again to stop recording.

```
 58.6 %RH
23:34  25.8 ℃
```
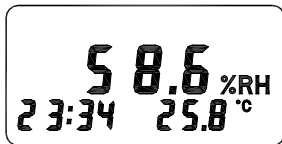
④ Resetting the "Data-logger"

```
RECORD
 CLr
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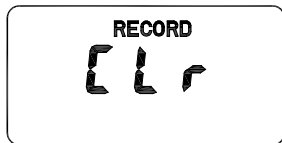
⇨ To erase all logged data in memory, first turn the instrument off. Press and hold the "RECORD" button and then turn the power on. The LCD will show "CLr" and all data will be erased.

7. EXIT AUTO POWER OFF FUNCTION

① Turn off the meter.

② Set " TEMP / %RH / DEW "
switch to DEW position.

③ Turn on the meter, then LCD
shows "P OFF".

P OFF

8. MAINTENANCE

Battery replacement:

When the LCD display shows " 🔋 ", the batteries have insufficient power to give accurate readings. Replace the battery with one new one as follows:

① Turn the instrument off and push the battery cover in the direction of the arrow to open.

② Disconnect the battery from the instrument and replace with a new 9-Volt battery of the specified type. Refit the battery cover.

③ Turn the instrument on and check for correct operation.

④ Dispose of the exhausted battery in accordance with local regulations.

Cleaning:

Periodically wipe the case with a damp cloth and mild detergent.
Do not use abrasives or solvents. Clean and dry as required.