



The wireless humidity sensor consists of an integrated circuit containing a polymer-based capacitive humidity sensor and a bipolar junction transistor-based silicon bandgap temperature sensor. It is a semiconductor circuit that digitally displays measured values according to various relative humidity and temperature changes.

The sensor is contained within a perforated aluminum probe and senses through airflow and circulation. Typical reaction time is approximately 15 seconds in slowly flowing air at 25°C.

It supports both Bluetooth classic mode and low power mode, so it can be used on various smart devices, and can also be connected to a PC via USB.

You can use various functions through the dedicated app (Science#).



Example: Science# experiment screen

\* Download 



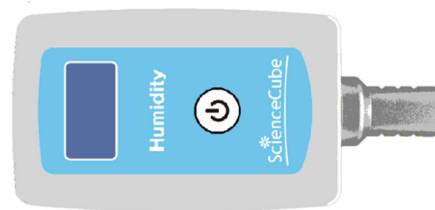
## Technical data

|                                   |  |  |
|-----------------------------------|--|--|
| ■ <b>Measurement performance</b>  | Range  | Humidity : 0 ~100 %RH<br>Temp. : -40 ~ 60 °C   |
|                                   | Resolution *   | 0.1 %RH (When using Science#, 0.01 %RH)<br>1 °C (When using Science#, 0.01 °C)<br>dewpoint : 0.1 |
|                                   | Accuracy   | ±2%RH (@0 ~ 80%RH)<br>±0.25°C (@-40 ~ 90°C)  |
|                                   | Sampling Rate  | 100 Samples/second   |
| ■ <b>General Conditions</b>       | Display  | OLED 0.96" (128*64 pixel)  |
|                                   | Operating Power  | Li-Poly Rechargeable Battery (700mAh)  |
|                                   | Power Consumption  | 0.5W   |
|                                   | Power Requirements                                       | USB (DC 5V, 0.5A)  |
|                                   | Battery life **  | Approximately 12 hours(after full charge)  |
|                                   | Wireless Connection                                      | Bluetooth 5.0 or 2.1+EDR   |
|                                   | Wired Connection   | USB 2.0(Type-C)  |
|                                   | Operating Environment                                    | -40 to 60°C, Max. 85%RH  |
| Compliance                        | EN 61326-1, EN 55011, EN 55032, EN 301.<br>☞ R202-SMD070 |  |
| ■ <b>Mechanics specifications</b> | Dimension(WxLxH,mm)                                      | "115 * 50 * 24.7 mm<br>Body 80 * 50 * 24.7<br>Probe OD 13 * 25"                                  |
|                                   | Weight   | 65g (2.3 oz)   |
|                                   | Housing Materials  | PC+ABS, Aluminum alloy   |
|                                   | Housing Protection                                       | IP30   |

\* This resolution can be viewed through the Science# application.

\*\* Battery life varies by use, configuration, temperature, and many other factors; actual results will vary.

## ■ Product Appearance Design



## ■ Notices

- This product is to be used for educational purposes only. It is not appropriate for industrial, medical, research, or commercial applications.
- Our products and the contents are subject to change without any notice. In consequence we cannot assume responsibility for any consequential or other damage resulting from the use of this instrument.

Revised Feb. 2024