

2JCIE-BL01

Environment Sensor

Sense a variety of environmental information

- Sense your surrounding environment and helps you to assist your comprehensive assessment of indoor comfort
- Battery operable 46 x 39 x 15mm small package including 7 sensors
- Based on BluetoothR low energy, Sensor beacon can simplify the deployment
- Embedded memory for data logging can keep track of surrounding environments



RoHS compliant



Refer to *Safety Precautions* on page 19.

Ordering Information

Model	Communication Interface	Sensors
2JCIE-BL01	Bluetooth low energy	Temperature, Humidity, Light, UVI, Absolute pressure, Noise, Acceleration

Specifications

Item	Specification
Power Supply	CR2032 × 1 (3VDC)
Sensors	Temperature, Humidity, Light, UVI, Absolute pressure, Noise, Acceleration*1
Interface	Bluetooth low energy *2 : GAP advertisement / Custom GATT profile
Communication range	Approx. 10m *3
Operating Temperature	-10 to 60 degC
Operating Humidity	30 to 85 %RH
Battery Life	Approx. 6 months (5 min. measurement interval / one time per day connection) *3
Dimensions	Approx. 46 × 39 × 15 mm
Weight	Approx. 16 g (incl. battery)

Note: 1. Acceleration values are only provided in specific operation mode. Please refer to Communication Interface Manual for more details.

Note: 2. The Bluetooth word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by OMRON Corporation is under license.

Note: 3. Communication distance and battery life may vary according to obstacles between the communication equipment, radio wave conditions.

Application example

- Environment Sensor will sense your surrounding environment and helps you to assist your comprehensive assessment of indoor comfort.
- You can visualize the environmental information by transferring your sensor data to your smartphone via Bluetooth low energy technology.
- It is possible to notify the environmental changes and uncomfortable conditions to your smartphone via push notifications, and supports a comfortable environment management.
- By transmitting sensor data in broadcaster mode, you can easily build up a system in combination with common gateway devices.

Absolute maximum ratings

Item	Ratings
Power Supply	-0.3 to 3.6 V
Temperature range	-20 to 70 degC

Rating (Recommended operating condition)

Item	Min.	Typ.	Max.	Unit
Power Supply	2.7	3.0	3.3	V
Temperature range	15	25	45	degC

Basic performance

Item	Measurable range	Accuracy
Temperature	-10 to 60 degC	±2 degC
Humidity	0 to 100 %RH	±5 %RH
Light	10 to 2000 lx	±100 lx
UV Index	1 to 11	For reference *1 *2
Barometric pressure	700 to 1100 hPa	±4 hPa
Sound noise	37 to 89 dB	For reference *1
Acceleration (3-axis)	-2000 to 2000 mg	For reference *1 *3

* Supply voltage: 3.0V, Ambient temperature: 15 to 35 degC, unless otherwise specified.

* These values are specified under standard test condition, and do not guarantee the performance under the complex conditions.

Note: 1. These types of output are provided for referential use only, and these values do not guarantee the normal operation within that range.

Note: 2. Information on UV Index is just for reference. And it does not protect you from danger and various damage from UV light.

Note: 3. Acceleration values are only provided in specific operation mode. Please refer to Communication Interface Manual for more details.

Block diagram

