

NO: FS - 37	PRODUCT: 2JCIE-BU01 – Environment Sensor
DATE: June 2021	TYPE: MODIFICATION – Specification Change

2JCIE-BU01 Environment Sensor - Specification Change

In an effort to enhance our 2JCIE-BU01 Environment Sensor, Omron will change the specifications of the VOC. The details of this change are shown below. Should you have any additional questions, however, please communicate with the Sensor Product Manager, Cary Horan.



Effective Date:
September 2021

Changes:

Before the change	After the change																																																
<p>Specification for 2JCIE-BU01: eTVOC: 0 to 32767 [ppb] eCO2: 400 to 32767 [ppm]</p> <p>Catalog Characteristics</p> <table border="1"> <thead> <tr> <th>Item</th> <th>Measurable range</th> <th>Accuracy (Vcc = 5.0 V, Ta = 15 to 35°C if not specified)¹⁾</th> </tr> </thead> <tbody> <tr> <td>Temperature</td> <td>-10 to 60°C</td> <td>±2°C</td> </tr> <tr> <td>Humidity</td> <td>30 to 85%RH</td> <td>±5%RH</td> </tr> <tr> <td>Light</td> <td>10 to 2000 lx</td> <td>±100 lx</td> </tr> <tr> <td>Barometric pressure</td> <td>700 to 1100 hPa</td> <td>±4 hPa</td> </tr> <tr> <td>Sound noise</td> <td>40 to 94 dB</td> <td>For reference¹⁾</td> </tr> <tr> <td>3-axis acceleration</td> <td>-2000 to 2000 gal</td> <td>For reference¹⁾,⁴⁾</td> </tr> <tr> <td>eTVOC</td> <td>0 to 32767 ppb</td> <td>For reference¹⁾,⁴⁾</td> </tr> </tbody> </table> <p><small>1. 3-axis acceleration values can only be obtained in the specified operation mode. For details, refer to the User's Manual. 2. eTVOC (equivalent Total Volatile Organic Compounds) refers to the total concentration of volatile organic compounds in a room environment. Output TVOC values will be higher or lower depending on the type of volatile organic compound. Also, if continuously operated in high-temperature and high-humidity environments, sensitivity for eTVOC values may decrease. 3. Information for heat stroke and discomfort index are only guidelines to be used for air conditioning and physical condition management. An individual difference and physical condition will greatly affect an individual's feeling. Sensor output is not to be used for determining the presence of symptoms. Use only as a guideline. Warning levels for heat stroke may not be the same as those issued by public institutions. 4. SI (Spectral Intensity) values corresponds to the destructive energy seismic motions exert on a structure. 5. 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. 6. Communication distance may vary according to obstacles between the communication equipment, radio wave conditions. 7. Performance values are obtained based on the various conditions of individual tests, and do not guarantee the values obtained under combined conditions for rated values and performance values. 8. Reference output values are provided for reference only, and do not guarantee that operation will always take place normally within that range.</small></p>	Item	Measurable range	Accuracy (Vcc = 5.0 V, Ta = 15 to 35°C if not specified) ¹⁾	Temperature	-10 to 60°C	±2°C	Humidity	30 to 85%RH	±5%RH	Light	10 to 2000 lx	±100 lx	Barometric pressure	700 to 1100 hPa	±4 hPa	Sound noise	40 to 94 dB	For reference ¹⁾	3-axis acceleration	-2000 to 2000 gal	For reference ¹⁾ , ⁴⁾	eTVOC	0 to 32767 ppb	For reference ¹⁾ , ⁴⁾	<p>Specification for 2JCIE-BU01: eTVOC: 0 to 29206 [ppb] eCO2: 400 to 32767 [ppm] Error status (eTVOC, eCO2): -32767</p> <p>Catalog Characteristics</p> <table border="1"> <thead> <tr> <th>Item</th> <th>Measurable range</th> <th>Accuracy (Vcc = 5.0 V, Ta = 15 to 35°C if not specified)¹⁾</th> </tr> </thead> <tbody> <tr> <td>Temperature</td> <td>-10 to 60°C</td> <td>±2°C</td> </tr> <tr> <td>Humidity</td> <td>30 to 85%RH</td> <td>±5%RH</td> </tr> <tr> <td>Light</td> <td>10 to 2000 lx</td> <td>±100 lx</td> </tr> <tr> <td>Barometric pressure</td> <td>700 to 1100 hPa</td> <td>±4 hPa</td> </tr> <tr> <td>Sound noise</td> <td>40 to 94 dB</td> <td>For reference¹⁾</td> </tr> <tr> <td>3-axis acceleration</td> <td>-2000 to 2000 gal</td> <td>For reference¹⁾,⁴⁾</td> </tr> <tr> <td>eTVOC</td> <td>0 to 29206ppb</td> <td>For reference¹⁾,⁴⁾</td> </tr> </tbody> </table> <p><small>1. 3-axis acceleration values can only be obtained in the specified operation mode. 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If the VOC concentration is out of detection range, the eTVOC and eCO2 output values may output -32767</p>	Item	Measurable range	Accuracy (Vcc = 5.0 V, Ta = 15 to 35°C if not specified) ¹⁾	Temperature	-10 to 60°C	±2°C	Humidity	30 to 85%RH	±5%RH	Light	10 to 2000 lx	±100 lx	Barometric pressure	700 to 1100 hPa	±4 hPa	Sound noise	40 to 94 dB	For reference ¹⁾	3-axis acceleration	-2000 to 2000 gal	For reference ¹⁾ , ⁴⁾	eTVOC	0 to 29206ppb	For reference¹⁾,⁴⁾
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* Sales teams should communicate this modification with their OEM's and CEM's.
For further technical support and any questions, please communicate with Product Marketing.

Specifications in this product news are as of the issue date and are subject to change without notice.
Only main changes in specifications are described in this document. Please be sure to read the relevant catalogs, datasheets, product specifications, instructions, and manuals for precautions and necessary information when using products.
This PCN is intended for use in the Americas
Last time buy dates are subject to change based on availability