SPE-S-AT User Guide

This sensor, SPE-S-AT, can be connected to the DC power supply device under test to obtain voltage, current and ambient temperature parameters. It can transmit the measurement data to a mobile App or cloud server via Bluetooth (BLE) to achieve remote measurement functionality.

The sensor has 4 external connection wires:

+IN --- Connect to the positive (+) terminal of the device under test, power input.

-IN --- Connect to the negative (-) terminal of the device under test, power input.

User optional:

+OUT --- Connect to the positive terminal of the other device, power output.

-OUT --- Connect to the negative terminal of the other device, power output.

Specifaction：

Model: SPE-S-AT

Measurement range: 6.0 ~ 24.0 V DC, 0 ~ 20A DC, 0 ~ +70 °C

Primary comms: Bluetooth Low Energy @ 2.4 GHz

Max. power consumption: 80 mW

Fuse rating: 100 mA

Enclosure: UV-stable polycarbonate, and waterproof level of NEMA Type 4, 4X

Dimensions: ~ 134 × 34 × 18.5 mm (connection wires not included)

Operating temp: −25 °C to +70 °C

Humidity : 0–80% RH non-condensing

FCC ID : 2BVDB-SPE-S-AT

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FCC Statement

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC RF Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment shall be installed and operated with minimum distance 20cm between the radiator & body.