



PRODUCT EXTENSION RELEASE

SENSORS & CONTROLS PRODUCTS



Bourns Announces the Release of the Riedon™ SSD-500A Series Shunt Sensor – Digital by Bourns

500 Amps with CANbus or RS-485/MODBUS Interface

Riverside, California – December 2, 2024 – In line with our commitment to provide products with innovative designs, superior quality and exceptional value, Bourns Sensors and Controls announces the release of the Riedon™ Model SSD-500A Series Shunt Sensor – Digital by Bourns with 500 Amps nominal current and [CANbus](#) or [RS-485/MODBUS](#) Interface. This product extension release supplements the Model SSD-100A Series, released in June, 2024.

The Model SSD-500A Series includes innovatively designed digital DC shunt-based current sensors that offer superior accuracy, stability, and electrical isolation in certain harsh industrial environments.

This product series is well-suited for a wide variety of battery-related current sensing applications including large-scale energy storage banks, renewable energy generation infrastructure, industrial motor drives, building automation systems and EV charging stations.

Basic features and applications include the following:

Features

- 24-bit isolated shunt current sensor with CANbus or RS-485 interface
- 500 A Nominal current
- 1500 VDC reinforced galvanic isolation
- ±0.1 % Tolerance
- 16-bit +150 °C microcontroller
- 24-bit ADC with buffered analog inputs
- ECC flash memory with autocorrect single bit errors
- Internal and external CRC data error detection
- Advanced non-linear temperature compensation
- RoHS compliant*

Applications

- Battery systems
- Renewable energy
- Motor drives
- EV charging stations

Samples and production quantities are now available. For your convenience, data sheets and the material declaration sheet are now available at www.bourns.com.

Should you have any questions or need additional information, please contact [Bourns Customer Service/ Inside Sales](#).

* RoHS Directive 2015/863, Mar 31, 2015 and Annex.

"Bourns" is a registered trademark of Bourns, Inc. in the United States and other countries. In April 2023, BE Services Company, Inc., a subsidiary of Bourns, Inc., purchased certain assets of Riedon, Inc., including its logo and trademarks and the right to continue to manufacture former Riedon™ products.

The "Riedon Logo" is a registered trademark of BE Services Company, Inc. in the United States. "Riedon" is a trademark of BE Services Company, Inc.

SC2432