



NEW PRODUCT RELEASE

SENSORS & CONTROLS



Bourns Announces the Release of the SSD Series Digital Current Sensor

100 Amps with CANbus or RS-485/MODBUS Interface

Riverside, California – June 28, 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 [SSD Series Digital Current Sensor with CANbus or RS-485/MODBUS Interface](#).

The Bourns® SSD Series includes innovatively designed digital DC shunt-based current sensors that offer superior accuracy, stability, and electrical isolation over a wide -40 °C to +115 °C operating temperature range, even in certain harsh industrial environments.

"We are excited to bring this new range of sensors to market," said Michel Potvin, President of Bourns' Sensors Division. "This new family of small and highly-integrated digital System-in-Package (SiP) devices is ideal for a wide range of battery-related current sensing applications including EV charging stations, energy storage, renewable energy generation infrastructure, industrial motor drives, and building automation systems. They will allow design engineers to bring higher levels of efficiencies to their designs."

Basic features and applications include the following:

Features

- 24-bit isolated shunt current sensor with CANbus or RS-485 interface
- 100 A
- 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

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

The 100 Amp Model SSD Series will soon be expanded to include 1000 A, 500 A, and 250 A models.

Samples and production quantities are now available. For your convenience, the data sheets and material declaration sheet are now available at www.bourns.com. Check out the [Sensors & Controls Technical Library](#) for many useful application notes, white papers and brochures.

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

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