



PRODUCT EXTENSION RELEASE

SENSORS & CONTROLS



Bourns Announces the Release of the SSD-1000A Series Digital Current Sensor 1000 Amps with CANbus or RS-485/MODBUS Interface

Riverside, California - October 31, 2025 – 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-1000A Series](#) Digital Current Sensor.

The SSD-1000A Series includes innovatively designed digital DC shunt based current sensors that offer superior accuracy, stability, and electrical isolation in certain harsh industrial environments.

This new 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.

Features

- 24-bit isolated shunt current sensor with CANbus or RS-485/MODBUS interface
- 100 A (2 kA peak), 250 A (5 kA peak), 500 A (10 kA peak) or 1000 A (20 kA peak)
- 1500 VDC reinforced galvanic isolation
- $\pm 0.1\%$ tolerance
- 16-bit $+150\text{ }^{\circ}\text{C}$ 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

For programming information, please visit the [SSD series data sheet's](#) interface manual interactive section.

Visit the Bourns website at www.bourns.com for additional details. If you have any questions, please contact [Bourns Customer Service/Inside Sales](#).

Additional Information



DATA
SHEET



PRODUCT
SELECTOR



TECHNICAL
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INVENTORY



SAMPLES



CONTACT

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

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