

2,000A NOMINAL CURRENT**±0.5% ACCURACY AT 2,000A****6kV GALVANIC ISOLATION**[View SATEC's DC Energy Metering solutions on satec-global.com.au](https://www.satec-global.com.au) ↗

HCS-2000-S

2,000A Hall Effect Split-Core DC Current Sensor

Based on the Hall Effect principle, the HCS-2000-S is a split-core sensor designed for measuring DC currents up to 2,000A and is designated for a range of SATEC devices featuring DC metering. Its split-core body clamps around an existing conductor without disconnecting it, so it installs quickly on live plant.

The sensor provides high isolation between its primary and secondary circuits, with built-in protection against overvoltage, reversed polarity and electrical disturbances on the output, so it holds up well in demanding industrial and outdoor environments.



Main Features

Highlights

- High isolation between primary and secondary circuits
- Split-core design for easy installation without disconnecting the conductor
- Protection against overvoltage
- Protection against reversed polarity
- Output protection against electrical disturbances

Applications

- Photovoltaic applications
- Battery banks, including monitoring load current and charge current and verifying operation
- Transportation, measuring traction power or auxiliary loads
- Industrial instrumentation

Specifications

GENERAL CHARACTERISTICS

Nominal input current	2,000A
Linear measuring range	$1.2 \times I_n$
Overload capacity	$5 \times I_n$
Nominal output signals	$\pm 20\text{mA}$
Power supply	+15V DC
Current consumption	18mA–50mA + output current
Galvanic isolation	6kV RMS/50Hz/min
MTBF	$\geq 100\text{k hours}$

ENVIRONMENTAL

Operating temperature	-40°C to $+85^{\circ}\text{C}$
Storage temperature	-40°C to $+100^{\circ}\text{C}$

ACCURACY

Accuracy	$\pm 1.0\%\text{FS}$ for 300A–999A $\pm 0.5\%\text{FS}$ for 2,000A
Linearity	$\pm 0.5\%\text{FS}$ for 300A–999A $\pm 0.2\%\text{FS}$ for 2,000A

CONNECTIONS

+	+15V/+12V power supply
–	–15V/–12V power supply
M	Output
G	Ground

Connections are made via the on-board offset, gain and Phoenix connector terminals shown in the dimensions drawing overleaf.

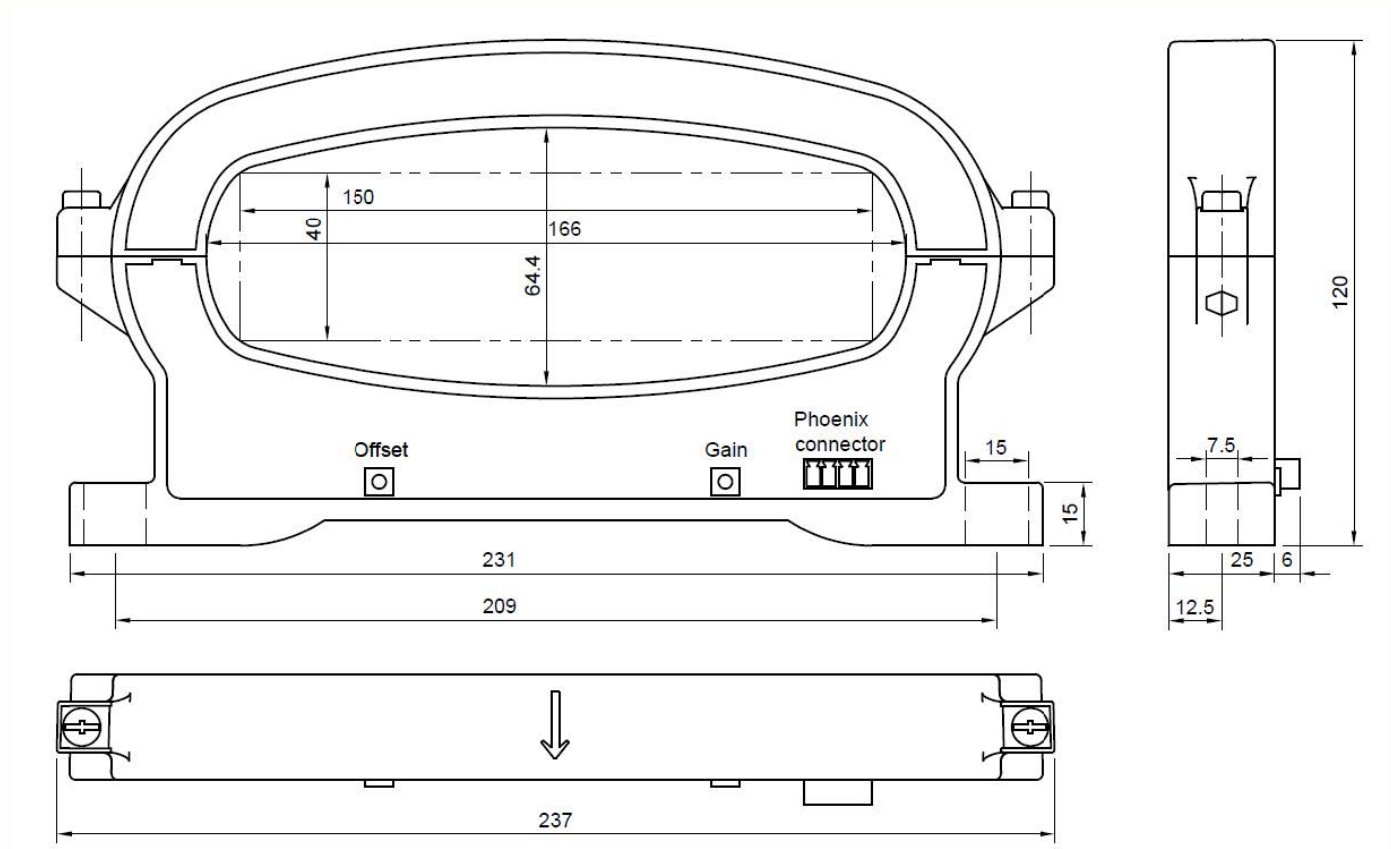
Specifications (continued)

CONSTRUCTION

Unit weight

940–980g

Dimensions (mm)



All dimensions in millimetres. Unit weight: 940–980g.

Ordering Information

The HCS-2000-S is a single fixed-specification model with no configurable order options. To order, or to request a quotation, contact the SATEC Australia sales team using the details below.

Related Current Sensors

HCS100-S: 100A Hall Effect split-core DC current sensor. [View datasheet ↗](#)

HCS-1000A: 1,000A Hall Effect solid-core DC current sensor. [View datasheet ↗](#)

Place an Order



To place an order or request a quotation for the HCS-2000-S, contact the SATEC Australia sales team, or scan the QR code.

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Document Revision History

VERSION	DATE
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