

HCS2000-S DATASHEET



2,000A Hall Effect Split Core DC Current Sensor

Based on the Hall Effect principle, this split-core sensor is designed for measuring DC currents and is designated for a range of SATEC devices featuring DC-metering.

HIGHLIGHTS

- ▶ High isolation between primary and secondary circuits
- ▶ Split Core; easy installation
- ▶ Protection against overvoltage
- ▶ Protection against reversed polarity
- ▶ Output protection against electrical disturbances

APPLICATIONS

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

TECHNICAL SPECIFICATIONS

GENERAL CHARACTERISTICS

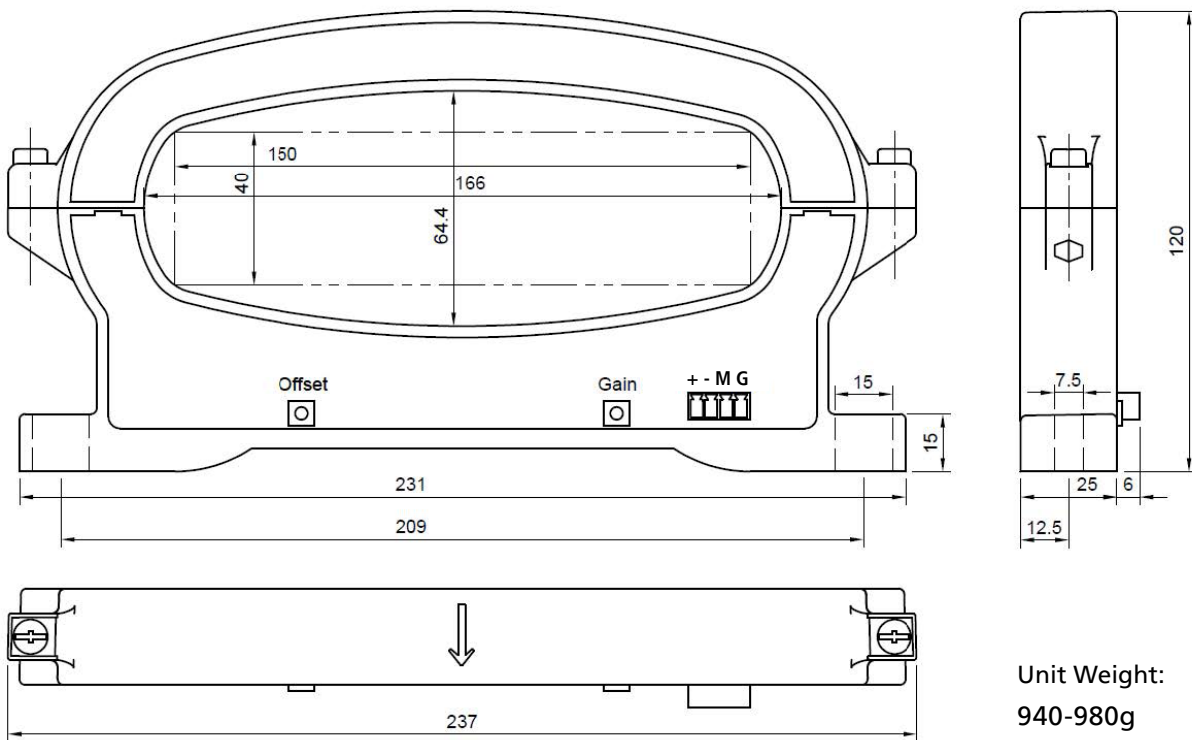
Nominal input current	2,000A
Linear measuring range	1.2 x I _n
Overload capacity	5 x I _n
Nominal output signals	±20mA
Power supply	+15V DC
Current consumption	18mA ~ 50mA + output current
Galvanic isolation	6KV RMS/50Hz/min
MTBF	≥ 100k hours

TECHNICAL SPECIFICATIONS
ACCURACY

Accuracy	$\pm 1.0\%FS$ for 300A-999A, $\pm 0.5\%FS$ for 2,000A
Linearity	$\pm 0.5\%FS$ for 300A-999A, $\pm 0.2\%FS$ for 2,000A

ENVIRONMENTAL

Operating temperature	-40°C to +85°C
Storage temperature	-40°C to +100°C

DIMENSIONS (MM)


Unit Weight:
940-980g

Pins

- + +15V/+12V Power Supply
- -15V/-12V Power Supply
- M Output
- G Ground