

## 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 <sub>n</sub>
Overload capacity	5 x I <sub>n</sub>
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

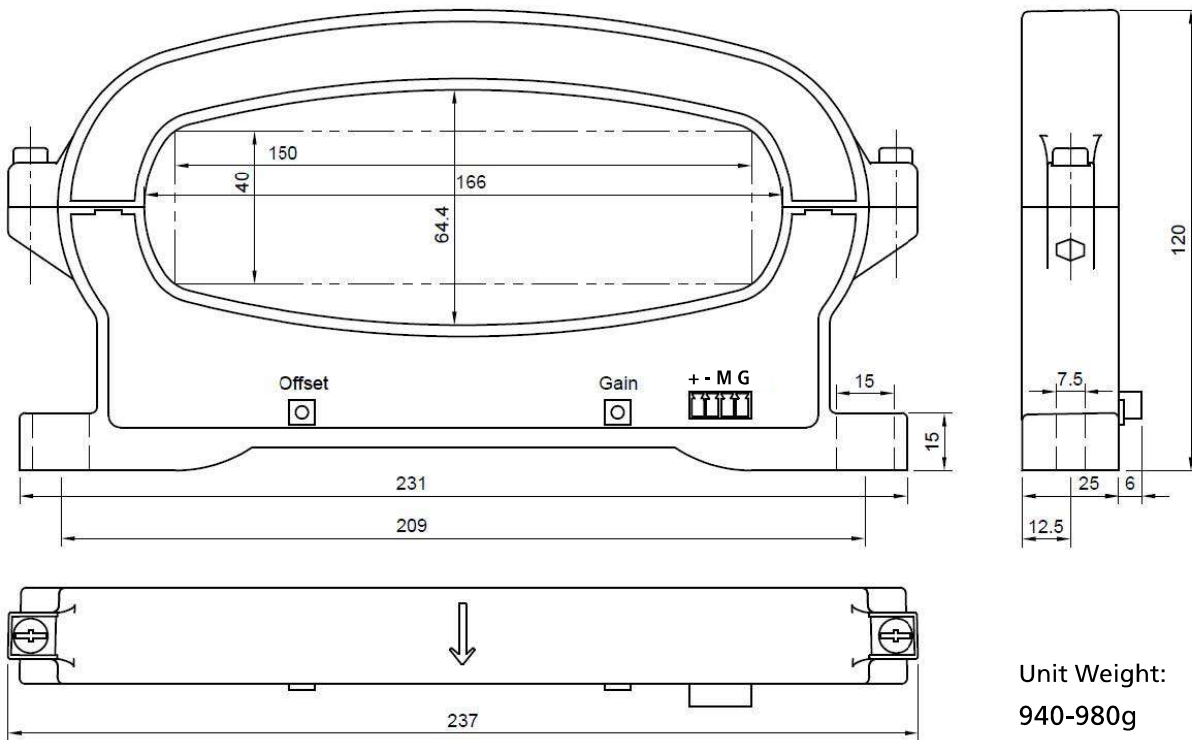
### ACCURACY

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