

## HCS2000-S DATASHEET



### 2000A 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

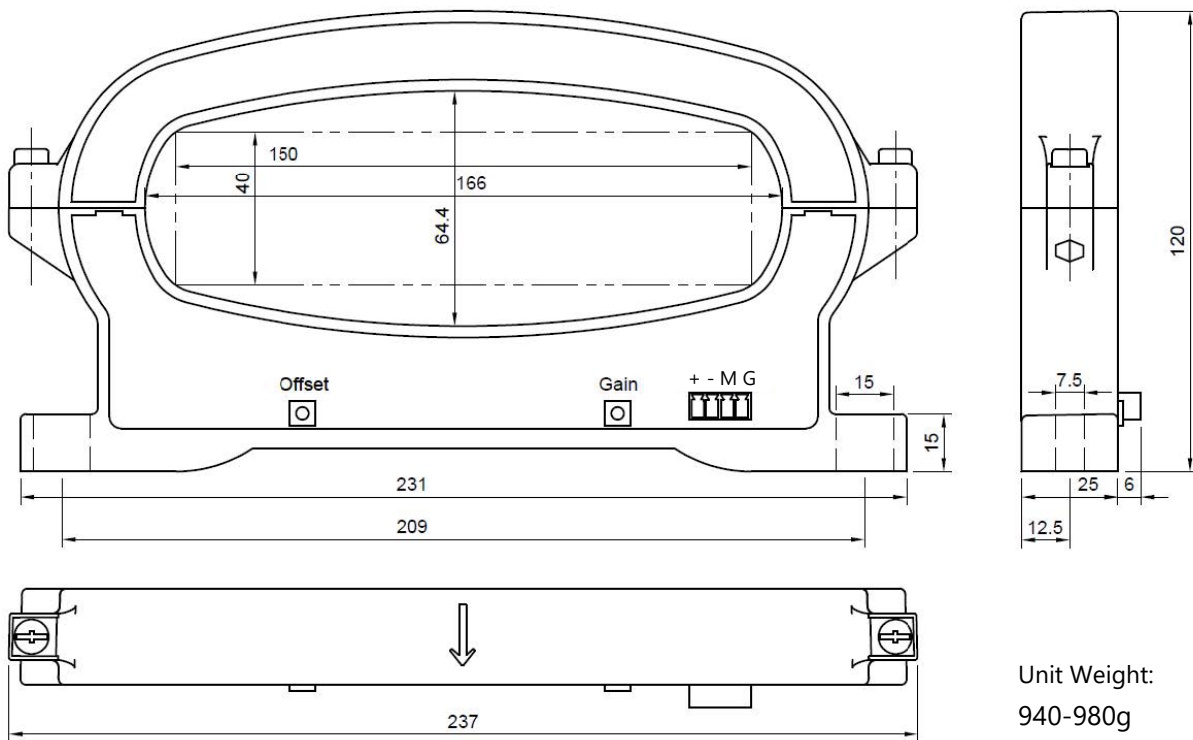
### ACCURACY

|           |   |
|-----------|---|
| 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