OmniSite’s analog current sensors monitor the current flowing to electrical equipment. The SPAP/A series are the solid-core versions, where the conductor runs through the sensor; no cutting, taping, or rerouting is required. The current sensors are accurate, reliable, easy to install, and require less service than differential pressure switches, flow switches, and paddle wheels.

The SPAP/A is an extremely accurate sensor, 0.5% of full scale, in the frequency range from 20 to 100Hz with currents up to 200A. The sensor outputs a 2-wire, 4-20mA output. The zero and span is factory calibrated and is jumper selectable from 0-100 to 0-200 Amps. The sensor is loop powered and requires an input voltage of 10 to 40 VDC. These sensors come with a one year warranty.

**Features**

- More accurate than traditional two-piece field installed solutions
- “Average Responding” algorithm gives RMS output on pure sine waves; perfect for constant speed (linear) loads
- Jumper selectable ranges reduce inventory and eliminate zero and span pots
- Output is magnetically isolated from input for safety
- UL, CUL and CE Approval accepted worldwide

**Specifications**

<table>
<thead>
<tr>
<th>Model</th>
<th>SPAP/A200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amperage Rating</td>
<td>0-100, 0-150, 0-200 Amps</td>
</tr>
<tr>
<td>Sensor Output</td>
<td>4 to 20 mA</td>
</tr>
<tr>
<td>Accuracy</td>
<td>+/-0.5% FS</td>
</tr>
<tr>
<td>Supply Voltage</td>
<td>12-40 VDC Loop Powered</td>
</tr>
<tr>
<td>Isolation</td>
<td>1270 VAC</td>
</tr>
</tbody>
</table>
Analog Output Current Sensor

Ordering Information

Part Number: AP/A200  Range: 200A

Wiring

TWO-WIRE LOOP POWERED

Crystal Ball RTU

AP/A200

12 VDC**

R

JUMPER

SENSOR

4-20 mA

Crystal Ball Analog Input
Impedence = 250 ohms

** 12VDC @ 80mA max, each input

Diagrams

FT CASE

DIMENSIONS (in inches)

POWER SUPPLY

\[ V_L = 12\text{VDC} + (R_L \times 0.020A) \]

where \( V_L \) = Minimum Loop Supply
\( R_L \) = Total Loop Resistance (0hms)

Operating Range