

AC VOLTAGE SENSOR

The AC voltage detector is used to indicate the presence or absence of AC line voltage. As an example, this is useful to tell when the UPS is running on battery power. It indicates an ALARM/NORMAL condition in software and also via an LED mounted on the sensor. This sensor works with all SensorHawk base units (**SensorHawk-2**, **SensorHawk-8** and **SensorHawk8/20**) as well as the **SecurityHawk** base units. SNMP traps and sensor polling available (*MIB file supplied*).



PART# SH-ACV-00



Specifications

- **Measurement Range:** Detects voltage at 50V AC to 250 VAC
- **Measurement Indication:** Alarm or Normal
- Visual LED indicator on sensor shows if voltage is present.
- **Sensor Type:** Open / Closed Contact Switch
- **Sampling Rate:** Multiple Readings per Second
- **Available Lengths:** 1.5m (5 feet)
- **Communications Cable:** RJ45 jack to sensor using UTP Cat 5 wire
- **Disconnect Alarm:** Relay alert if sensor becomes interrupted or disconnected.

DC VOLTAGE SENSOR

The DC voltage detector is used to indicate the presence or absence of DC line voltage. Readings are available in both an absolute value and a percentage of full scale. Full scale is user programmable with both the base and top voltage from -60 to 0 or 0 to 60 volts. This sensor works with all SensorHawk base units (**SensorHawk-2**, **SensorHawk-8** and **SensorHawk8/20**) as well as the **SecurityHawk** base units. SNMP traps and sensor polling available (*MIB file supplied*).



PART# SH-DCV-00



Specifications

- **Measurement Range:** -60V DC to +60v DC
- **Measurement Accuracy:** $\pm 1\%$
- Visual LED indicator on sensor shows if voltage is present.
- **Conversion Time:** 280 μ sec
- **Available Lengths:** 1.5m (5 feet)
- **Sampling Rate:** Multiple Readings per Second
- **Communications Cable:** RJ45 jack to sensor using UTP Cat 5 wire
- **Disconnect Alarm:** Relay alert if sensor becomes interrupted or disconnected.

4-20 mAMP CURRENT-TO-VOLTAGE CONVERTER

The 4-20 mAmp signal converter is used to integrate the Base Unit with a 4-20 mAmp transmitter. 4-20 mAmp technology is used to communicate analog signals over long distances where electrical interference is a problem. This solution is often used in the process control industry to collect the analog values from a wide array of remote sensors. Current signals are much less susceptible to noise than voltage signals. A voltage signal can be converted to current and then broadcast over a long distance before it is converted back to voltage and read by the Base Unit.

4-20 mAmp transmitters are common in the industry for use with high quality sensors. With the 4-20 mAmp converter these sensors can now be integrated into the SensorHawk base units (*SensorHawk-2*, *SensorHawk-8* and *SensorHawk8/20*) as well as the *SecurityHawk* base units, enhancing their value with the addition of graphing, web interface, email interface, thresholds, and limits.

Specifications

- **Cable Length:** 1.5m (5 feet)
- Converts current levels from 4 – 20 mA to 0.8 – 4.0 V voltage level
- **Maximum Linearity:** $\pm 0.09\%$
- 2 LED show status of the current loop and the power supply
- **Input Current Range:** +4 mA to +20 mA
- **Output Voltage Range:** +0.8 V to +4.0 V
- **Maximum Accuracy:** $\pm 0.15\%$ Full Scale ($\pm 0.3\%$ Full Scale, Maximum)
- **Power Supply:** +5 V DC
- **Power Consumption:** 25 mW
- **Operating Temperature:** -40°C to 85°C
- **Input Connector:** two terminal, lin(+) and lin(-), for current loop
- **Output Connector:** RJ45 jack to converter using UTP Cat 5 wire
- **Dimensions:** 6.5cm (2.6 in) x 6.2cm (2.4 in) x 1.5cm (0.6 in)
- **Weight:** 80 grams (2.8 oz)



PART# SH-VC-00

