



## 60VDC

Part Number: G60VDCM

### Monitor storage batteries and other low-voltage DC power systems with this low-cost sensors.

- Measure voltage of battery systems up to 60VDC
- Connects to a Geist Climate Monitor via Analog Input or Analog to Digital Converter
- Get graphs, see trends in the system
- Receive alarms for overvoltage or undervoltage

This sensor enables the Geist Climate Monitor to monitor DC low-voltage systems. Using logs and graphs provided by the Geist Climate Monitor you can remotely check on the status of the system. Find out if the batteries are being overcharged or not charged enough.

The 60VDCM sensor provides two sets of connection wires. Connect the wires with ring terminals to the battery system. These carry the input voltage (0 to 60VDC) to the sensor, where circuitry translates this input into an output voltage (0 to 5VDC). Run the other set of wires to the Geist Climate Monitor and attach them to either an Analog Input or Analog to Digital Converter.

### Connecting to the Geist Climate Monitor

Most Geist Climate Monitors have input terminals for connecting analog sensors like the 60VDCM sensor. These Analog Inputs accept a 0 to 5VDC signal which is reported on the Geist Climate Monitor as a 0 to 99 value. The Geist Climate Monitor logs these values along with other internal sensor readings. You can identify an Analog Input by its user-defined "friendly" name.

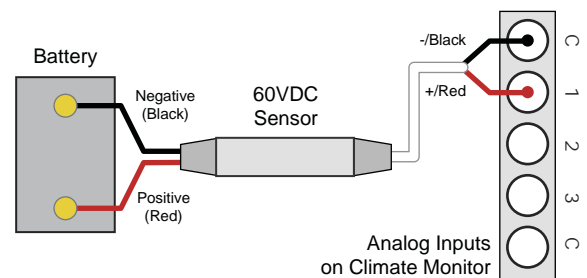
An Analog to Digital Converter converts an analog sensor to digital. This lets you connect a 60VDCM sensor to a digital sensor port when no Analog Inputs are available. The 60VDCM connects to the screw terminals to the Analog to Digital Converter and then the Analog to Digital Converter connects to the Geist Climate Monitor.

### Alarms

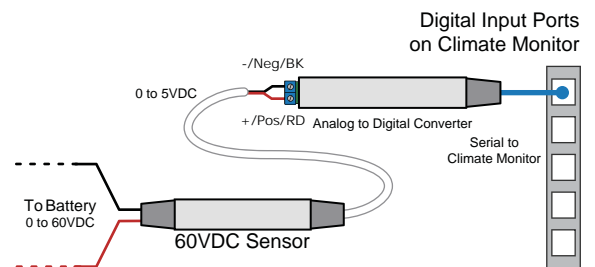
By setting appropriate trip points on the Geist Climate Monitor's alarm page, you can receive an automatic alert (via email or SNMP) to a potentially dead, discharged, or overcharged battery bank based on the battery voltage.



A plastic tube houses electronics that converts the 0-60VDC input voltage to a 0-5VDC signal compatible with the Geist Climate Monitor's analog input channels and protects against reversed polarity.



The pair of wires with ring terminals connect to a battery, while the other two signal wires attach to the Geist Climate Monitor.



The Analog to Digital Converter acts as a bridge between the 60VDCM sensor and the digital sensor port.

#### Sensor Details

##### Specifications

- Input voltage: 0 to 60VDC
- Output voltage: 0 to 5VDC, proportional to input
- Accuracy: +/-5%
- Cable to monitor: 36", 22 AWG solid
- Cable to battery: 36", 22 AWG solid
- Warranty: 1 year

##### Compatibility

- Works with all climate/power monitors with analog ports
- Compatible with Analog to Digital Converter

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