MONITOR

Analog to Digital Converter

Part Number: CCAT-48VDCM, CCAT-City Power, CCAT-Current, CCAT-Digital, CCAT-Door, CCAT-Smoke Alarm, CCAT-Water

A digital sensor that translates the signal from an analog sensor into a digital value, expanding the Geist Climate Monitor's analog input capacity.

- Bridges an analog sensor to the digital-sensor bus
- Add up to 16 additional analog inputs using Analog to Digital Converters
- Factory programmed to match sensor type

Does your application need more analog sensors than your Geist Climate Monitor has available inputs? Connect extra analog sensors using Analog to Digital Converters. Attach an analog sensor to the screw terminals on the Analog to Digital Converter, then plug the modular jack end of the cable to a digital-sensor port. The interface converts the signal from the analog sensor into a digital value. This allows the Geist Climate Monitor to monitor more analog sensors than the built-in Analog Inputs support.

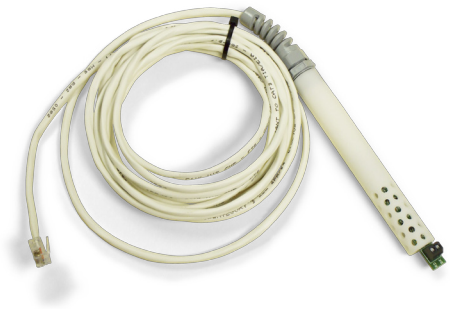
Programming/Types

Each Analog to Digital Converter is programmed at the factory according to what type of analog sensor will be attached. The climate monitor uses this information to interpret the sensor values and display them in the proper measurement scale. Examples of Analog to Digital Converter types include Water sensor, door position, digital (for dry-contact sensors), and Analog (0 to 5VDC signal).

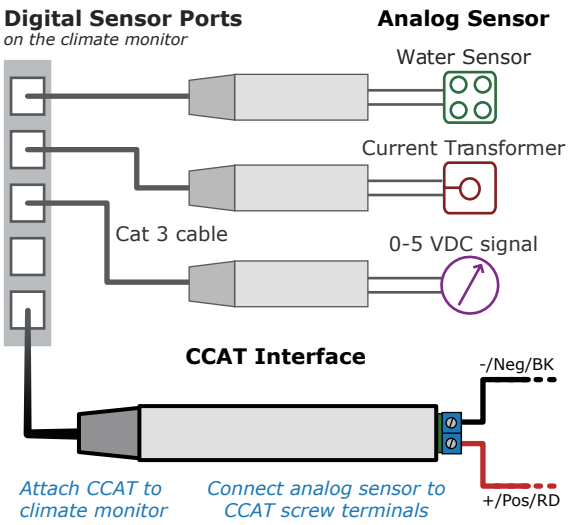
Digital Sensors

The climate monitor uses a serial protocol to communicate with sensors connected to the digital-sensor bus. When a digital sensor is plugged in, the monitor automatically detects and identifies the sensor. Each sensor can be given a "friendly" name to make it easier to identify. The Geist Climate Monitor cycles through the digital sensors to collect and log new readings. If a value exceeds a user-defined thresholds, the unit sends alerts through email or SNMP.

A Geist Climate Monitor can support up to 16 digital sensors. The combined cable length for these sensors can be up to 600' depending on environment. To prevent electronic interference, avoid running sensor cable near high-power decides and minimize cable length.



A plastic tube houses the electronics that convert an analog sensor to digital.



The Analog to Digital Converter takes readings from the sensor and transmits them digitally to the Geist Climate Monitor.

Sensor Details

Specifications

Amperage range: 30, 60, 120 amps, AC
Output: 0 to 5 VDC, proportional to current
Accuracy: +/- 2% from 10% to 100% full scale
Connections: 2-position screw-terminal block
Size: 2.9" L x 2.58" W x 1.04" H
Warranty: 1 year

Compatibility

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

Please note the information contained herein is for informational purposes only. Technical claims listed depend on a series of technical assumptions. Your experience with these products may differ if you operate the products in an environment, which is different from the technical assumptions. Geist reserves the right to modify these specifications without prior notice. Geist makes no warranties, express or implied, on the information contained in this document.

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