

Installation Instructions

H722LC

Solid-Core Low Current 0-5VDC Current Transducer



H722LC



• *This product is not intended for life or safety applications. This product is not intended for installation in hazardous or classified locations.*

• *Potential electrocution hazard exists. Installing sensors in an energized motor control center or on any energized conductor can be hazardous.*

• *Read instructions thoroughly prior to installation*

Severe injury or death can result from electrical shock during contact with high voltage conductors or related equipment. Disconnect and lock-out all power sources during installation and service.

Applications shown are suggested means of installing sensors, but it is the responsibility of the installer to ensure that the installation is in compliance with all national and local codes. Installation should be attempted only by individuals familiar with codes, standards, and proper safety procedures for high-voltage installations.

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INSTALLATION

1. Ensure power conductor to be monitored is disconnected and locked out from the power source!
2. Install the adjustable mounting bracket to the back of the electrical enclosure.
3. Slide the conductor to be monitored through the sensing hole of the current sensor. Terminate the conductor.

NOTES:

• **To monitor current under 1 Amp please see installation note #1.**

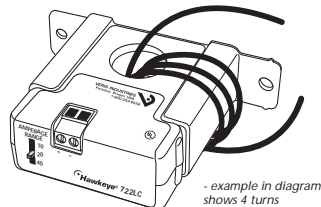
• **To monitor current above 40 Amps please see installation note #2.**

4. Connect 0-5VDC self-powered output to analog input of control panel. (See page 2 for wiring example)
5. Scale control panel for 0-5VDC input (see page 2)

INSTALLATION NOTES

1. For currents less than 1 Amp: To provide adequate current and ensure accuracy, wrap the conductor through the center hole and around the sensor body to produce multiple passes and increase flow.

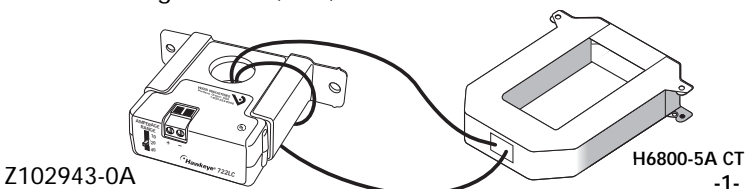
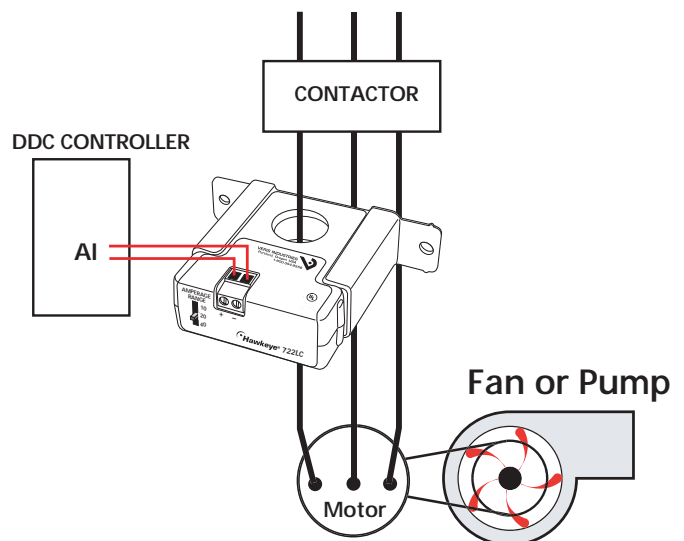
• *Measured current = Actual current x the number of passes. Controller must be programmed to account for the extra passes. i.e., if four passes are run through the sensor (as shown above) the reading must be divided by 4.*



2. For currents greater than 40 Amps:

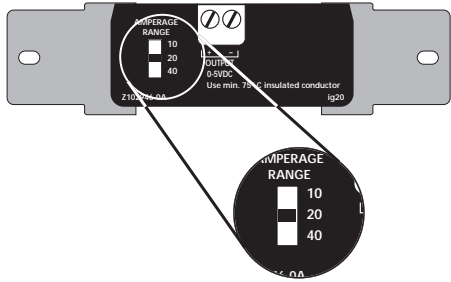
To monitor currents greater than 40 amps, a 5 amp current transformer may be used. Install the 5 amp CT (H6810 series) on the conductor being monitored and run the CT secondary wire through the current sensor two times. Then terminate the two secondary wires of the 5 amp CT to each other. Set the amp range selector switch to 0-10 amps and configure the control panel so that 0-5VDC is equal to 0-(CT primary current rating). **CAUTION: CTs can contain hazardous voltages. Install CTs in accordance to manufacturers specifications and instructions. (Terminate the CT secondary before applying current through it).** NOTE: The H722HC is available with field selectable ranges of 0-50, 100, 200A.

WIRING EXAMPLE



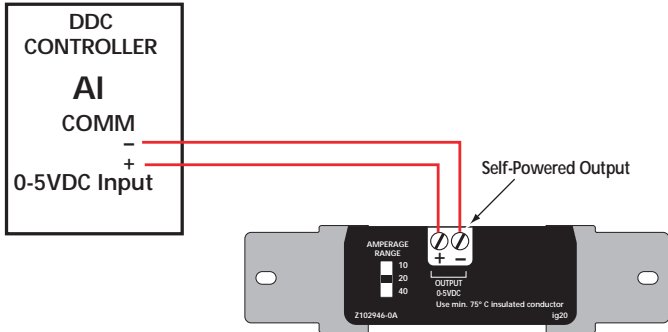
SCALING CONTROL PANEL

First set the amperage range selector switch to a level appropriate for your load. The H722LC is available with three choices, 0-10, 20, or 40 Amps = 0-5VDC. For currents up to 200 Amps, the H722HC is available, or see installation note #2 (page 1).

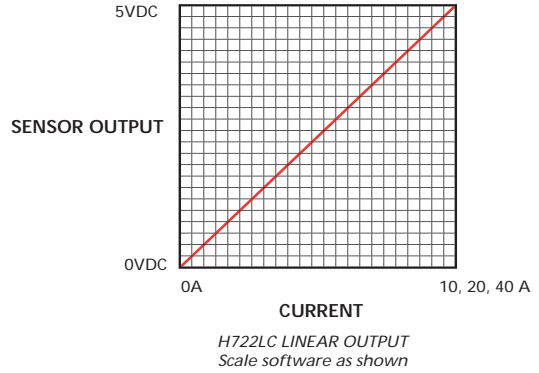


Amperage Range
Selector Switch

Wiring Example:



H722LC



SPECIFICATIONS

Amperage Range	0-10, 20, 40 Amps (Slide switch selectable)
Accuracy	±2% F.S. from 10% to 100% of selected range
Sensor Supply Voltage	None required (self-powered)
Isolation	600VAC rms. (max. voltage when monitoring an uninsulated conductor)
Temperature Range	-15° to 60° C
Humidity Range	0-95% non-condensing
Output	0-5VDC self-powered
Agency Approval	UL508 E150462



TROUBLESHOOTING

1. There is no reading at the control panel
 - A. Check the polarity of the circuit.