



Installation guide

Controller

Model:CTLAV1, CTLAV3

Version en français disponible à www.magika.ca

Content

This guide applies to models CTLAV1 (controller with 1 vacuum sensor) and CTLAV3 (controller with 3 vacuum sensors). Each of these modules comes with:

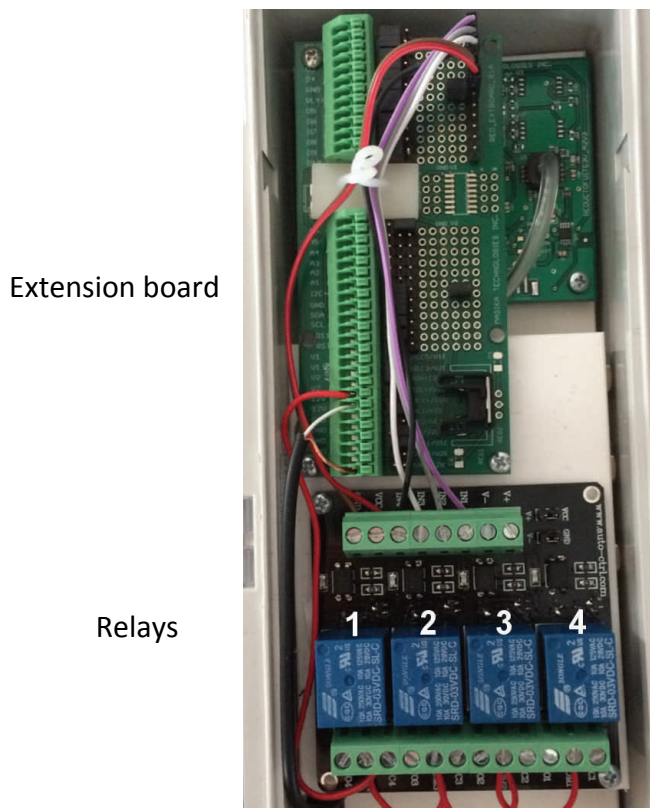
- 4 relays
- 1 approved antenna
- 1 or 3 adapter(s) to connect vacuum ports to 5/16" tubing
- 1 AC/DC transformer



Always disconnect power before servicing your controller module

Automation

Magika controller modules have four (4) relays allowing remote start and stop of up to 4 devices. The relays are located at the bottom within the enclosure (see picture below). The relays are numbered from left to right. The first relay on the left-hand side is relay number 1.



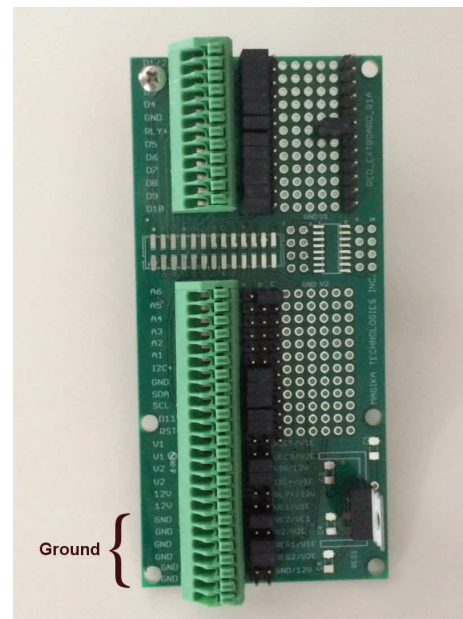
Relays are pre-wired for 0/12VDC operation. They provide both NO (normally-open) et NC (normally close) terminals in order to maximize flexibility. These relays should be used to provide 12V signals to external interface relays. Never use these relays to drive external devices. The maximal load for the 4 relays combined should not exceed 500mA.

AC power is prohibited within the controller!

Automation (cont'd)

The manufacturer recommends using 24AWG wires between the controller and external interface relays. Readily available CAT5 and CAT6 network cable meet this requirement. A single network cable can be used to connect up to 4 external devices since it contains 4 pairs of wires.

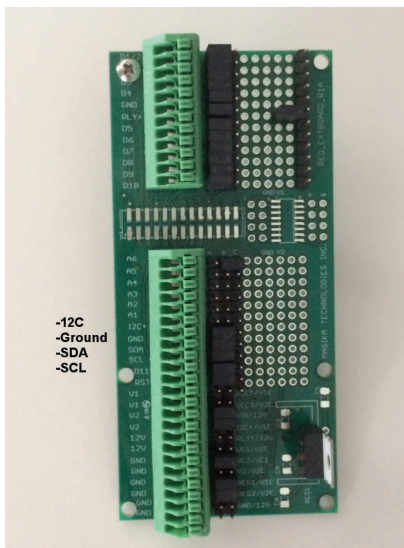
One wire needs to be connected between the NC (or NO) terminal of the selected relay and another wire needs to be connected to one of the GND terminals. The GND terminals are located on the left side at the bottom of the extension board.



As mentioned above, these 2 wires are then connected to the control terminals of an external relay that is large enough to power the external devices to automate. The external delay must operate needs to operate with a 0/12VDC control signal. Please install the external relay into an approved enclosure and make sure that all connections and component used meet the local electrical code.

Connecting a tank level sensor—LEVSND

To connect a tank level sensor, you will need a CAT5E or superior network cable. The total length of this cable must not exceed 80 feet. Only 4 of the 8 wires are used. The following pictures illustrate the wiring. Please see the LEVSND guide for detailed instructions.



Always disconnect power when working on connections within the controller!

Green=12C
Blue=GND
Orange=SDA
Brown=SCL

