

HOLATRON

OPERATION & MAINTENANCE GUIDE – 120 Volt AC Latching Relay Module



HOLATRON SYSTEMS, LLC
833 ILANIWAI ST., STE. 2
Honolulu, HI 96813
(808) 732-5419

WARNING

Holatron Systems specializes in the design and manufacture of standard and custom electronic control systems used for the actuation of hazardous devices. As a condition of purchase, the user must acknowledge awareness and agreement that utilization of this product and participation in activities utilizing fireworks, rockets, and explosives is an ultra-hazardous activity carrying implied and explicit risks of injuries and damages to the user and to other participants. The user assumes the risk connected with the utilization of this product and all risks of participation in the activities for which this product is sold. User acknowledges that he/she/it has the necessary and required skill, expertise, training and licensing, as may be applicable or necessary by custom, usage, trade or law, to engage and participate in the ultra-hazardous activities connected with the use, purchase, transportation, or employment of the products sold under this agreement. User acknowledges that Holatron Systems, LLC, has not and will not conduct any investigation into the skill, expertise, training and licensing, as may be applicable or necessary by custom, usage, trade or law, of the user or of user's agents, employees and assigns, to engage and participate in the ultra-hazardous activities connected with the use, purchase, transportation, or employment of this product. User specifically agrees that Holatron Systems, LLC, its officers, employees, and agents shall not be liable for any claim, demand, cause of action of any kind whatsoever for, or on account of death, personal injury, property damage or loss of any kind resulting from or related to user's or user's employees', agents' or assigns' use of this product, and user agrees to indemnify, defend in any action at law, and hold harmless Holatron Systems, LLC, from same, whether brought by the user, user's agent, or assigns, or any third party.

1.0 HARDWARE DESCRIPTION.

The module contains 3 spring terminals, a 120 VAC plug and outlet, a fuse, a switch, and two indicators. The plug connects to your 120 volt AC source. The 120 VAC outlet connects to the 120 VAC device you wish to actuate. The input indicator lights when 120 VAC is present at the input terminals and the fuse is not blown. The output indicator lights when 120 VAC is present at the output terminals (relay on). Recommended maximum output current is 5 amps.

--- WARNING ---

DO NOT PLUG A DEVICE INTO THE OUTLET IF THE OUTPUT INDICATOR IS LIGHTED, AS IT WILL BE ACTUATED IMMEDIATELY.

The input is protected by a 6 amp slow-blow fuse. Operation with devices consuming more than 6 amps will blow the input fuse. If the input indicator does not light when power is connected, the fuse should be replaced with a 6 amp slow-blow fuse. To open the fuseholder, rotate it ¼ turn counter-clockwise with a screwdriver. This will release the latch, allowing the fuseholder to pop out. Place a new 6 amp slow-blow 3AG fuse in the fuseholder, reinsert it, and turn it ¼ turn clockwise with a screwdriver to lock it.

2.0 OPERATION.

The three terminals marked "9 VDC Control" connect to the Six-shooter receiver. "COM+" connects to one of the two "COM+" terminals on the Six-shooter receiver. "ON" connects to one of the Six-shooter output terminals. This is the cue that will turn on your 120 VAC device. "OFF" connects to a second Six-shooter output terminal, typically the next cue in sequence after the "ON" cue, resulting in an "alternate-action" function when firing in semi-automatic mode. Pressing the transmitter button to fire the "ON" cue turns on the 120 VAC device. Pressing the transmitter button a second time fires the next sequential cue which turns off the 120 VAC device. You may also use Six-shooter cue 6 for the "OFF" connection when firing in Six-shooter modes 0 - 3. This enables you to leave the 120 VAC device on while continuing to fire other sequential cues with the transmitter "A" button and turn the 120 VAC device off at any time by pressing the transmitter "B" button, which fires cue 6.

3.0 MODE SELECTION.

The operation described in the preceding paragraph requires that the Mode Switch be in the "Latch" position. If the switch is in the "Mom." (momentary) position, the 120 VAC output is simply slaved to the 9 volt "ON" terminal. The output switches off as soon as the "ON" terminal switches off, and the 9 volt "OFF" terminal has no effect.

4.0 SPECIFICATIONS.

Parameter	Minimum	Typical	Maximum
Output Current			5 Amps
Supply Voltage	108 VAC	120 VAC	130 VAC
Control Voltage	8.5 VDC	9 VDC	12 VDC
Control Current (9 VDC in)		36 milliamp	
Control Input Impedance		250 ohm	
Leakage current from power input to control inputs			0 milliamps

If further information or service is required, contact:

Holatron Systems, LLC.
833 ILANIWAI ST., STE. 2
Honolulu, HI 96813
(808) 732-5419
www.holatron.com