

HOLATRON

OPERATION & MAINTENANCE GUIDE – 12 Volt Latching Relay Module, 12V Control



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WARNING

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1.0 HARDWARE DESCRIPTION.

The module contains 7 spring terminals, a switch, and an indicator. The two terminals marked "12 VDC Power" connect to your 12 volt DC supply. Power polarity is not critical, but output polarity will match power polarity, as defined by the red and black terminals. That is, when latched on, power red is connected to output red. Power black is always connected to output black, whether on or off. **DO NOT USE AC POWER**, as that will damage the relays. The two terminals marked "12 VDC Output" connect to the 12 volt device you wish to actuate. The red indicator lights when 12 volts is present at the output terminals.

--- WARNING ---

THE INPUT POWER SOURCE SHOULD ALWAYS BE CONNECTED BEFORE THE OUTPUT. DO NOT CONNECT A DEVICE TO THE OUTPUT TERMINALS IF THE OUTPUT INDICATOR IS LIGHTED, AS IT WILL BE ACTUATED IMMEDIATELY.

Maximum current capacity of the relays is 5 amps. Operation with devices consuming more than 5 amps, or with shorted output terminals, will damage the relays and void the warranty. Please note that the output is not fused. So be very careful not to connect to a short circuit. Modules with internal automatic resetting fuses are available at a higher price.

2.0 OPERATION.

The three terminals marked "12 VDC Control" (shown as 9 VDC Control in the photo) connect to your receiver 12 VDC outputs. "COM+" connects to one of the "COM+" terminals on the receiver. "ON" connects to one of the enumerated output terminals. This is the cue that will turn on your 12 volt device. "OFF" connects to a second enumerated 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 12 volt device. Pressing the transmitter button a second time fires the next sequential cue which turns off the 12 volt device.

3.0 MODE SELECTION.

The operation described in the preceding paragraph requires that the "Latching Mode" switch be in the "LATCH" position. If the switch is in the "MOM." position, the 12 volt output is simply slaved from the 12 volt "ON" terminal. The output switches off as soon as the "ON" terminal switches off, and the 12 volt "OFF" terminal has no effect.

4.0 SPECIFICATIONS.

Parameter	Minimum	Typical	Maximum
Output Current			5 Amps
Supply Voltage	10 VDC	12 VDC	14 VDC
Control Voltage		12 VDC	
Control Current		30 milliamp	
Control Input Impedance		400 ohm	

If further information or service is required, contact:

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