

# Larry McGee Co.

COMMUNICATION AND CONTROL SYSTEMS

## Radio DTMF Activator Model 14-99005V2-AC1



### Application:

The LMG 14-99005V2-AC1 Radio DTMF Activator provides radio-controlled relay contacts for convenient control of gates, switches and other equipment. It is equipped with several user-selectable operational modes, enabling selection of one of several variations of timed relay, toggle relay on/off, combined timed/toggle relay operation in addition to the option of separate control of two relays. Compared to the “14-99005V2”, the “14-99005V2-AC1” operates on AC power, has a different enclosure and provides a DC output that can be used to power external equipment.

### Features:

- 8-channel synthesized, programmable VHF radio with channel select switch on the circuit board.
- Accepts DTMF codes up to six digits in length.
- Status LEDs on the circuit board for “Power”, “Radio Receiving”, “DTMF Decoding”, “Relay Activated”.
- Multiple operational modes are user-selectable, with combinations of the following options:
  - Timed Relay—Ranges of 1—15 seconds, 10—150 seconds and 10—150 minutes
  - Relay On/Relay Off—Energize the relay by entering the code followed by a “\*”,  
De-energize the relay by entering the code followed by a “#”.
  - Momentary Contact —Momentarily close the NO contact by entering the DTMF code followed by a “\*”; momentarily open the NC contact by entering the DTMF code followed by a “#”.
- Powered by standard AC voltage.
- Provides a DC output for powering external equipment.

### Operation:

One of eight pre-programmed channels is selected via the channel select switch on the circuit board. Choose one of the programmed operational modes. (Note: The operational mode is normally set at the factory, but can be changed in the field.) Set the time (if appropriate for mode selected) and DTMF code using rotary switches on the circuit board. To operate, transmit the DTMF code via VHF radio to the Radio DTMF Activator. For units equipped with the timed relay, the relay will remain energized until the preset time expires. If the code is re-entered dur-

ing the time the relay is activated, the timer is reset and restarts the timing sequence. For units programmed for “relay on/relay off” operation, the operator enters the DTMF code followed by a “\*” to energize the relay. It will remain energized until the operator enters the DTMF code followed by a “#” (or the power is removed). For units programmed for momentary actuation of the NO and NC relay contacts, entering the DTMF code followed by a “\*” momentarily closes the NO contact. Entering the DTMF code followed by a “#” momentarily opens the NC contact.

### **Physical Description:**

- The Radio DTMF Activator (AC Version) is enclosed in a metal case with hinged door. The antenna connector, terminal strip for the relay output and DC output voltage and the AC cord are all at the bottom of the enclosure. Built-in brackets allow for easy wall-mounting.
- Inside the metal case is a programmable, synthesized radio, circuit board with power conditioning circuitry, radio demod audio circuitry with a 1-6 digit DTMF decoder, DTMF code selection switches and LED indicators. AC-DC converters convert the AC input voltage to DC voltage for internal use as well as customer use for external equipment.

### **Specifications:**

Input Power	117V AC, protected with fuse and MOV
Output Power	24 V DC, .9 Amps, standard. Contact factory for other voltages. Circuit protection provided by voltage converter.
Radio	Programmable VHF, 8 synthesized channels. Select channel with rotary switch on circuit board.
Temp. Range	Operational: -30C (-22F) to +60C (+140F) Storage: -40C (-40F) to +80C (+176F).
Size	8 3/4" x 4 3/8" x 11 1/2"
Weight	12 pounds.
Relay Contacts	Relay contact rated 1 amp @ 30 VDC. One “Form C” contact available.
Terminals	Screw terminals with barriers for relay contacts and output power.
DTMF Code	1-6 digit, selected with rotary switches on front panel.
Relay Timer	Timer set with rotary switch on front panel. Timer ranges, depending on mode, are: 1—15 seconds, 10—150 seconds and 10—150 minutes.

### **Ordering Information:**

14-99005V2-AC1 Radio DTMF Activator

07/2007 Specifications subject to change

**Larry McGee Co.**  
COMMUNICATION AND CONTROL SYSTEMS

720 Armstrong Drive Buffalo Grove, IL 60089-1884  
<http://www.lmgee.com> E-mail: [lmg@lmgee.com](mailto:lmg@lmgee.com)  
Phone: 847-419-9960 Fax: 847-215-7862