ADEMCO USER'S MANUAL

No. 4201 RPM PROGRAMMER

INTRODUCTION:

The Ademco No. 4201 RPM Programmer is a handheld device, used to program addresses and response modes (fast/slow)* for Remote Point Modules (RPMs) that do not utilize a DIP switch. Programming is accomplished by keypad entries, which are displayed on an LCD display window. The No. 4201 can also be used to troubleshoot faulty RPMs, even those with a DIP switch, by displaying the RPM's unique address. Multiple addresses indicates a fault.

The No. 4201 is powered by three 9VDC alkaline type batteries, located in the battery compartment below the keypad. The No. 4201 indicates low battery voltage by displaying the message "LOW BATTERY" on the display window. Batteries should be replaced at that time.

*Note: Not all RPMs have this option. Refer to the RPM Installation Instructions for details.

OPERATION:

The No. 4201 is connected to the polling loop terminals of the RPM to be programmed by a supplied interface cable which has a phono plug and two alligator clips.

NOTE: The RPM must be disconnected from its polling loop, and only one RPM can be programmed or verified at a time with the No. 4201.

The No. 4201 is activated by pressing the **POWER(*)** key, and will automatically shut off 60 seconds after the last time a key is pressed. The software version number will be displayed for 1 second upon power-up, after which the word "On" will be displayed. Keypad entries are accomplished by momentarily depressing the appropriate key(s). Each key must be completely released before the next key is pressed. Note that the No. 4201's LCD display operates best at room temperature. If the unit has been exposed to cold temperatures (ex. stored in trunk of car), allow it to warm up for 15 minutes at room temperature before operating.

KEYPAD FUNCTIONS:

RPM addresses are programmed by first entering a number from 1-255 (leading zeroes not required), then pressing **FUNC.(#) + PROG(3).** Additional keypad functions are activated by first pressing the **FUNC.(#)** key, followed by pressing the appropriate labeled key for the desired function. The No. 4201 keypad functions are:

FUNC.(#) + DISP.(1): This function displays the current address of an RPM, and is used to identify unknown RPM addresses, or to verify address programming.

FUNC.(#) + PROG.(3): This function transfers the previously entered address and response mode data to the RPM. Refer to the **PROGRAMMING AN RPM** section for specific programming details.

FUNC.(#) + FAST(4): This function sets the fast response* time for the RPM.

FUNC.(#) + SLOW(6): This function sets the slow response* time for the RPM.

FUNC.(#) + CLEAR(7): This function clears the display window for key entry changes, and resets the No. 4201 for programming the next RPM. Displays "On".

FUNC.(#) + TEST(9): This function activates the test function (currently inactive).

PROGRAMMING AN RPM:

1. **Connect the interface cable** by plugging the phono plug into the faceplate jack, and connect the alligator clips to the RPM polling loop terminals (Red to"+"/Black to "-").
2. **Activate the No. 4201 by pressing the POWER(*) key.** (Automatically shuts off)
3. **Programming key entry format is as follows:**
   [ADDRESS] + [(#) + FAST(4) or SLOW(6) if available] + [(#) + PROG.(3)]
   Where ADDRESS = **numerical keys** corresponding to RPM's address (1-255).
   Omit the FAST/SLOW entry if not available for RPM (it is ignored if programmed).
   When entry is completed, the word "PASS" and the entered address will alternately flash 4 times, indicating successful programming. If the word "FAIL" appears, it indicates a possibly faulty RPM. Repeat the programming procedure. If "FAIL" still appears, the RPM must be repaired or replaced.
   To change an entry, press FUNC.(#) + CLEAR(7).
4. **Disconnect the cable clips from the RPM,** and repeat procedure for each RPM to be programmed.

VERIFYING AN RPM'S ADDRESS:

To verify the address of an RPM, or display an RPM's unknown address, connect the cable as described in step 1 above, then press **FUNC.(#) + DISP.(1).** The flashing symbol "_" indicates an address search is in progress. The current address of the RPM will then flash 4 times. If more than one address flashes, it indicates that the RPM is defective and must be repaired or replaced. Note that the verification feature can be used on any type of RPM, including those with DIP switches, and verifies addresses only, not FAST/SLOW response.

ERROR MESSAGES:

The following error messages may be displayed:

OPEn: The No. 4201 is not connected to the RPM, possibly indicative of a broken cable.

SHOr: The two alligator clips are shorted together, or their polarity is reversed. The No. 4201 will automatically shut off after flashing this message 5 times.

Err1: The RPM being programmed has a DIP switch; can't be programmed with the No. 4201.

Err2: The address entered is 0 or greater than 255.

FAIL: Programming was unsuccessful, indicating a possibly faulty RPM, which should be repaired or replaced.

BATTERY REPLACEMENT:

Replace the batteries when "LOW BATTERY" message is displayed:

1. Remove the 2 battery compartment cover screws, and remove cover.
2. Unplug the old batteries from the battery clips, and replace with fresh 9 volt alkaline type batteries. Place batteries in the compartment, keeping the terminal clips to the left side of the compartment.
3. Replace the battery compartment cover, securing it with the 2 screws.

SPECIFICATIONS:

Dimensions: 7-5/8" x 4" x 2-1/4"
Power: Three 9 volt alkaline type batteries
Operating Temperature: 32°F to 120°F (0°C to 50°C)
Storage Temperature: -4°F to 140°F (-20°C to 60°C)

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ADEMCO

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