**AP-4 Features**

- **Digital Display**: Displays last 3 digits of the transmitter ID number during operation and programming. Also displays MGT supervision status and system utility information.
- **Program Button**: Push for 3 seconds to enter program mode. Press momentarily to exit program mode.
- **Display Button**: Shifts the display to show the left three digits of the 6-digit transmitter ID number during operation or programming.
- **Open Button**: Push to activate the access relay.
- **Star (#) Key**: Displays the ID number of the last transmitter activated. (Use the display button to view the left three digits of the ID number.)
- **Numeric Keypad**: For entering transmitter ID numbers, programming, and utility function numbers.
- **Antenna Connector**: For direct connection to the local whip antenna or, with a coax cable, to a remote antenna.
- **Access Granted Indicator**: Lights when the access relay is energized.
- **Suspended Indicator**: Lights when a signal is received from a transmitter that has been suspended from use, and when suspending a transmitter.
- **Program Mode Indicator**: Lights when the unit is in program mode.
- **Radio Indicator**: Lights when a radio signal on the receiver's frequency is detected.
- **Power Indicator**: Lights when AC or DC power is applied to the unit.

**AP-4 Installation**

- **Power Input**: DC 12-24 volts DC.
- **Mounting**: Mount the receiver in an area protected from the elements.
- **Notes**:
  1. Mount receiver in an area protected from the elements.
  2. If using the local whip antenna, the higher the receiver is mounted, the better the radio range will be.
  3. Optionally, mount the receiver in a metal cabinet and use an external antenna.

**Introduction**

The AP-4 is designed for a broad range of access control applications. Its wireless design and small size make it easily adaptable for a variety of access control requirements. Typically, the AP-4 is used to control a door strike, barrier gate, automatic gate or automatic door operator.

The AP-4 contains a high-gain UHF receiver which uses an external antenna to pick up signals from up to 250 feet away. Up to 480 Linear MegaCode® transmitters and one Model MGT safety edge transmitter can be programmed into the AP-4's memory. The AP-4 will retain its memory, even without power.

Two dry contact relay outputs are provided. One relay is the ACCESS RELAY (K1), which triggers for two seconds each time a programmed transmitter is activated. This relay output connects to the pushbutton or radio input of the access device. The second relay is the OBSTACLE RELAY (K2), which triggers for two seconds when an obstacle signal is sent from a Model MGT safety edge transmitter. This relay output connects to the obstacle input of the access device. An OPEN REQUEST input terminal is supplied for hardened activation of the access device with an external pushbutton or keyswitch.

The AP-4 can be powered from 12-24 Volts AC or DC. The form C relay outputs can switch up to 1 Amp each. An EARTH GROUND terminal is provided as an optional connection for maximum lightning and static protection.

Three utility functions can be displayed by pressing the pound (#) key then the digits 1-3. The utility functions display the status of the obstacle transmitter (#1), the total number of transmitters programmed (#2), and the total number of transmitter ID blocks programmed (#3).

The AP-4 can fully supervise the MGT safety edge transmitter. The system monitors the MGT transmitter for hourly status reports, tamper signals, and low battery signals. A beep will sound every 5 seconds if a fault occurs and the trouble source can be displayed by pressing pound-one (#1). A transmitter must be activated twice to trigger the ACCESS RELAY if a supervisory trouble condition exists on the MGT transmitter (unless the MGT has been suspended). To clear the supervisory trouble after servicing, press the CANCEL button.
**SET FACILITY CODES**

**USE THESE STEPS ONLY IF TRANSMITTER BLOCKS HAVE BEEN ORDERED WITH A PRE-SET FACILITY CODE**

**SET TRANSMITTER BUTTONS**

**USE THESE STEPS TO CHANGE WHICH BUTTONS ON MULTI-BUTTON TRANSMITTERS WILL ACTIVATE THE ACCESS RELAY**

**ADDING TRANSMITTERS**

**SET 1: PRESSicator for 3 SECONDS → ENTERS PROGRAM MODE**

**DISPLAY: P d Then: P d → READY FOR PROGRAMMING**

**SET 2: PRESS # → FACILITY CODE FUNCTION NUMBER**

**SET 3: Press # → RECEIVER FACILITY CODE LOCATION (FROM 1-4)**

**SET 4: Press # → TRANSMITTER FACILITY CODE NUMBER (FROM 1-16): 0 = IGNORE FACILITY CODE**

**SET 5: PRESS → EXIT PROGRAM MODE**

**NOTES:**
1. Repeat steps 2-5, if required, for each of the four receiver facility code locations.
2. When the transmitter facility code is set to "0", the receiver will accept all transmitters regardless of their facility code.

**REMOVING ALL TRANSMITTERS**

**ADD AN MGT TRANSMITTER**

**SET 1: PRESSicator for 3 SECONDS → ENTERS PROGRAM MODE**

**DISPLAY: P d Then: P d → READY FOR PROGRAMMING**

**SET 2: PRESS # → MGT TRANSMITTER ADJUST FUNCTION NUMBER**

**SET 3: Press # → MGT TRANSMITTER ID # (FROM 1-65,535)**

**SET 4: Press # → ENTERS MGT ID #**

**SET 5: PRESS → EXIT PROGRAM MODE**

**NOTES:**
- Enter 1 if the transmitter ID # is not labeled on the transmitter. Trigger the transmitter to view the ID # on the AP-4 display. Use the star key to view the last received ID # (press the display button to view the left three digits of the ID #).
- The factory default setting only allows the left transmitter labeled on a transmitter, triggering button to activate the access relay.
- The button setting will be used by all transmitters programmed.
- Repeat steps 2-3 to program other buttons.

**REMOVING THE MGT TRANSMITTER**

**ADJUSTING TRANSMITTERS**

**SET 1: PRESSicator for 3 SECONDS → ENTERS PROGRAM MODE**

**DISPLAY: P d Then: P d → READY FOR PROGRAMMING**

**SET 2: PRESS # → MGT TRANSMITTER ADJUST FUNCTION NUMBER**

**SET 3: Press # → MGT TRANSMITTER ID # (FROM 1-65,535)**

**SET 4: # → ENTERS MGT ID #**

**SET 5: PRESS → EXIT PROGRAM MODE**

**NOTES:**
- Enter "0" to disable button.
- Enter "1" to activate transmitter.
- The radios are required to comply with FCC Part 15 and Industry Canada Rules and Regulations. As such, they have limited transmitter power and therefore limited range.
- A receiver cannot respond to more than one transmitted signal at a time and may be blocked by interference or fault.

**MGT TRANSMITTER SUPERVISION**

**SET 1: PRESSicator for 3 SECONDS → ENTERS PROGRAM MODE**

**DISPLAY: P d Then: P d → READY FOR PROGRAMMING**

**SET 2: PRINT # → TRANSMITTER ADJUST FUNCTION NUMBER**

**SET 3: Press # → MGT TRANSMITTER ID # (FROM 1-65,535)**

**SET 4: Press # → ENTERS MGT ID #**

**SET 5: PRESS → EXIT PROGRAM MODE**

**NOTES:**
- Enter "0" to disable button.
- Enter "1" to activate transmitter.
- The radios are required to comply with FCC Part 15 and Industry Canada Rules and Regulations. As such, they have limited transmitter power and therefore limited range.
- A receiver cannot respond to more than one transmitted signal at a time and may be blocked by interference or fault.

**USING THE SAME COMMAND TO ACTIVATE (UNSUSPEND) THE MGT TRANSMITTER!**

**SPECIFICATIONS**

**Size:** 4.5" W x 6.0" H x 1.5" D
**Supply Voltage:** 12-24 Volts AC or DC
**Operating Current:** 250 mA Maximum
**Operating Temperature Range:** -22° to +158° F (-30° to 70° C)
**Sensitivity:** -94 dB Minimum
**Bandwidth:** 3-4 MHz
**Frequency:** 318 MHz
**Relay Contact Rating:** 1 Amp @ 24 Volts AC or DC
**Maximum # of Transmitters:** 480
**Maximum # of Accessory Blocks:** 238
**Maximum # of Facility Codes:** 4

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