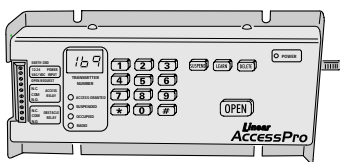


Linear AccessPro®

MEGACODE FORMAT

AP-1

Wireless Access Control Receiver



Installation Instructions

Linear

(619) 438-7000 • FAX (619) 438-7043
USA & Canada (800) 421-1587 & (800) 392-0123
Toll Free FAX (800) 468-1340

INTRODUCTION

The AP-1 is designed for a broad range of access control applications. Its wireless design, small size and dual relay outputs make it easily adaptable for a variety of access control requirements. Typically, the AP-1 is used to control a door strike, barrier gate, automatic gate or automatic door operator.

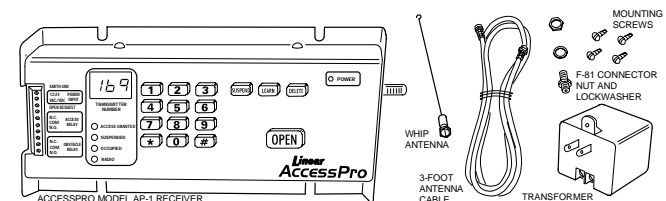
The AP-1 contains a high-gain UHF receiver which uses an external antenna to pick up signals from up to 250 feet away. Up to 169 Linear MegaCode Format transmitters and one Model MGT safety edge transmitter can easily be programmed into the AP-1's memory. The AP-1 will retain its memory, even without power.

Two dry contact relay outputs are standard. One relay is the ACCESS RELAY, 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, 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 hardwire activation of the access device with an external pushbutton.

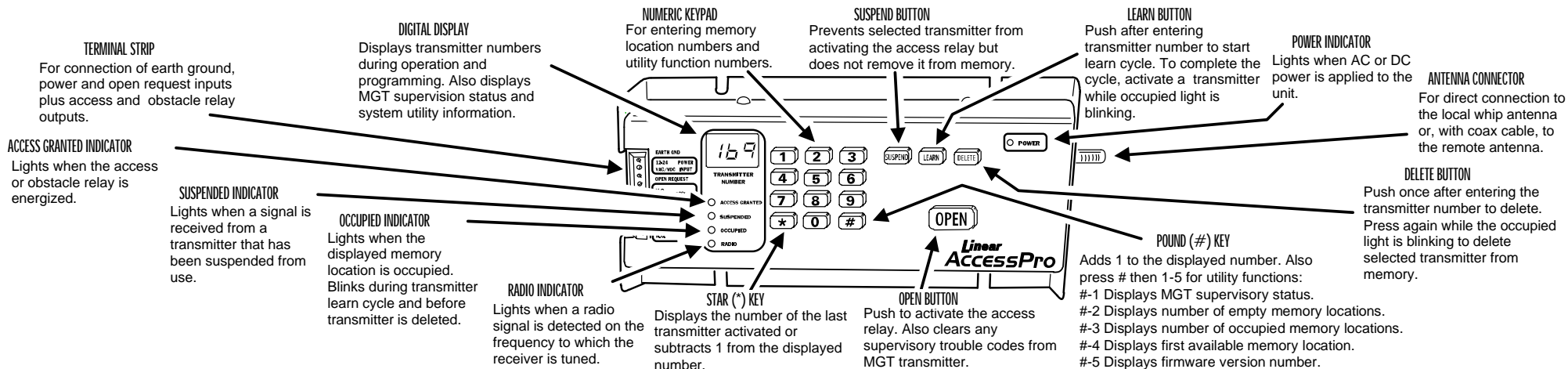
The AP-1 can be powered from 12-24 Volts AC or DC. The Form C relay outputs can switch up to 1 Amp each. An EARTH GROUND terminal is provided as an optional connection for maximum lightning and static protection.

Five special utility functions can be displayed by pressing the pound (#) key then the digits 1-5. They display the status of the obstacle transmitter, the number of empty programming locations, the total number of transmitters programmed, first available programming location and firmware version number.

The AP-1 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 (#)-1. For a trouble indication, a transmitter must be activated twice to trigger the ACCESS RELAY if a supervisory condition exists on the MGT transmitter.

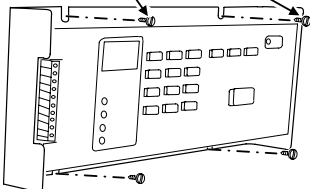


AP-1 FEATURES



RECEIVER INSTALLATION

MOUNT RECEIVER USING THE FOUR SCREWS PROVIDED

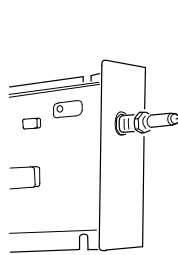


1. Mount receiver in an area protected from the elements.
2. If using the local whip antenna, the higher the receiver is mounted, the better the radio range will be.
3. Optionally, mount the receiver in a metal cabinet and use an external antenna.

ANTENNA INSTALLATION

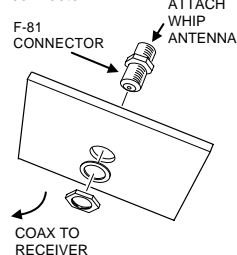
LOCAL ANTENNA

Attach local whip antenna directly to receiver. Bend whip to point antenna up.



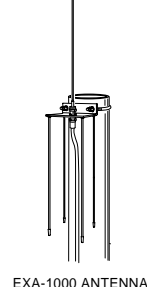
REMOTE ANTENNA

Mount F-81 connector on surface using lockwasher and nut. Connect to receiver with coax cable and screw whip antenna to connector.

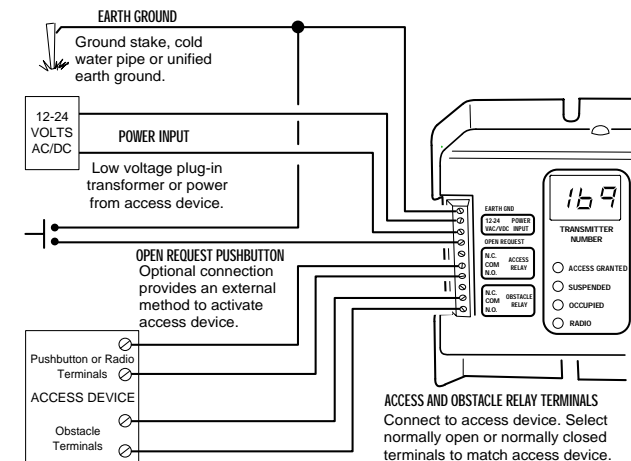


EXA-1000 REMOTE ANTENNA

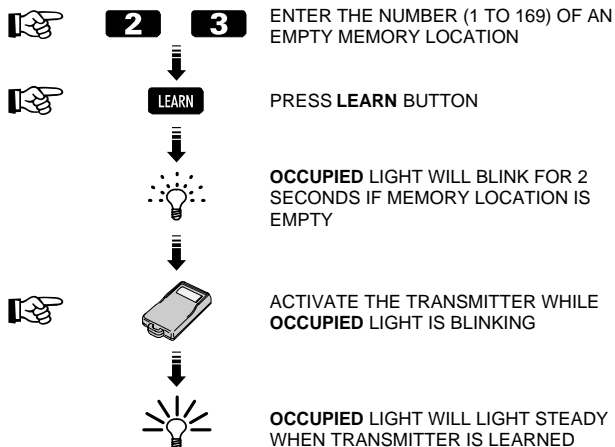
Use the optional EXA-1000 antenna mounted as high as possible for best radio range. Connect to receiver with RG-59 coax cable.



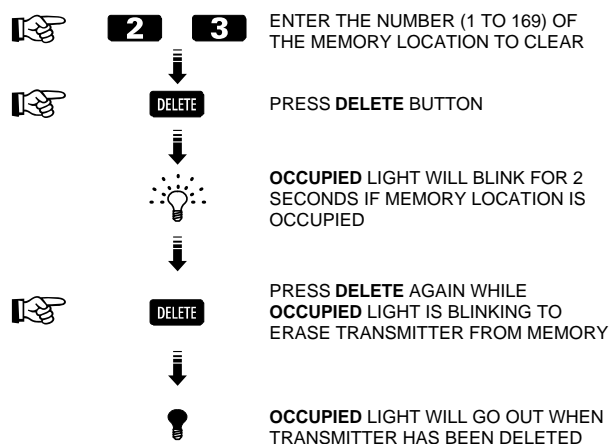
ELECTRICAL CONNECTIONS



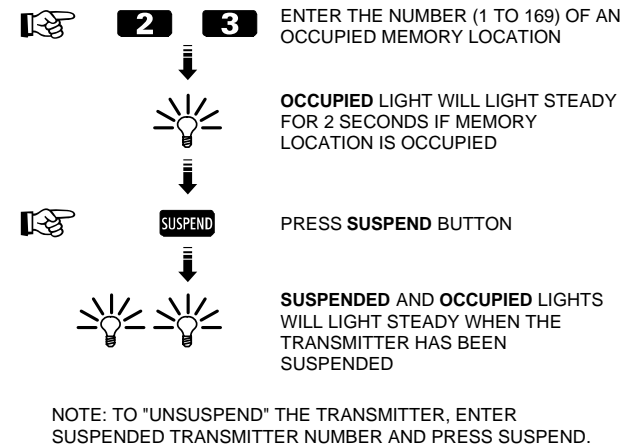
LEARNING TRANSMITTERS



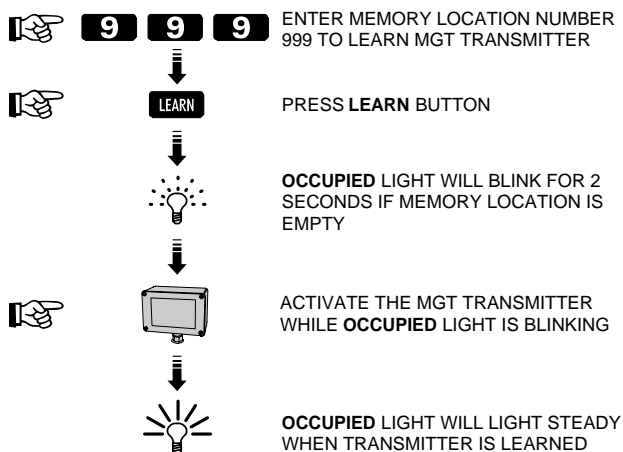
DELETING TRANSMITTERS



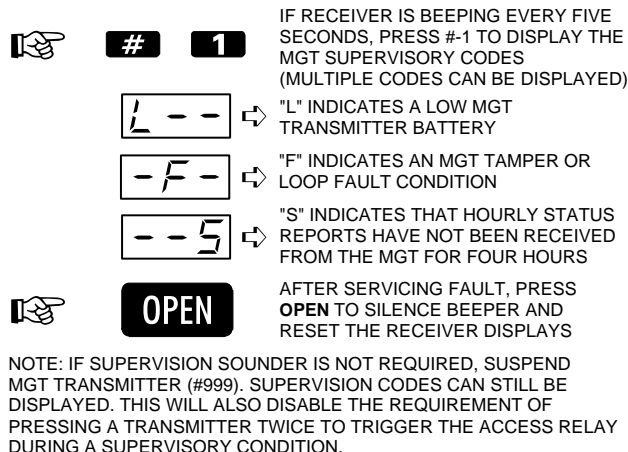
SUSPENDING TRANSMITTERS



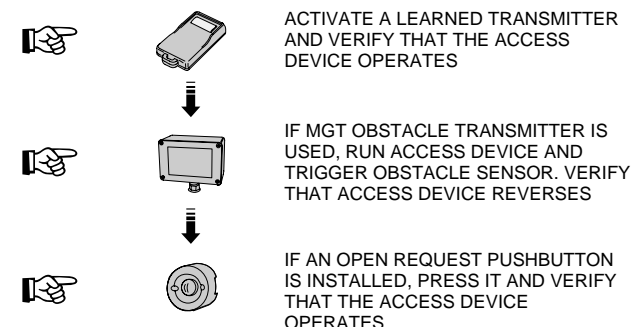
LEARNING MGT TRANSMITTERS



MGT TRANSMITTER SUPERVISION

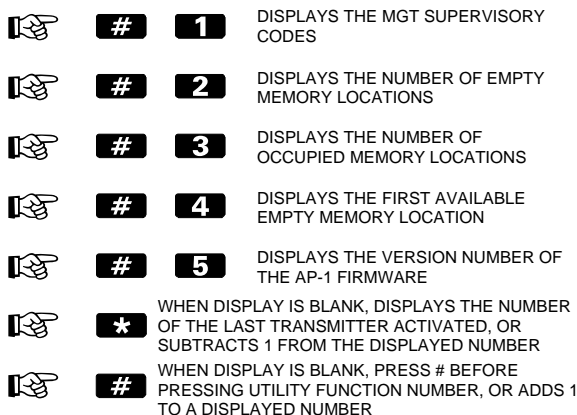


SYSTEM TESTING



KEY UTILITIES

THESE HANDY UTILITY FUNCTIONS CAN SPEED SYSTEM PROGRAMMING AND MAINTENANCE



SPECIFICATIONS

Size: 10.5"W x 4.5"H x 2"D

Weight: 1.5 Lbs.

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 dBm Minimum

Bandwidth (3 db): 4 MHz Typical

Frequency: 318 MHz

Relay Contact Rating: 1 AMP @ 24 Volts AC or DC

LINEAR LIMITED WARRANTY

This Linear product is warranted against defects in material and workmanship for twelve (12) months. The Warranty Expiration Date is labeled on the product. **This warranty extends only to wholesale customers** who buy direct from Linear or through Linear's normal distribution channels. **Linear does not warrant this product to consumers.** Consumers should inquire from their selling dealer as to the nature of the dealer's warranty, if any. **There are no obligations or liabilities on the part of Linear corporation for consequential damages arising out of or in connection with use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation, or reinstallation.** All implied warranties, including implied warranties for merchantability and implied warranties for fitness, are valid only until Warranty Expiration Date as labeled on the product. **This Linear Corporation Warranty is in lieu of all other warranties express or implied.** For warranty service on Linear equipment return product, at sender's expense to:

Linear Corporation Service Department
2580 Pioneer Avenue, Suite C
Vista, CA 92083

IMPORTANT !!!

Linear radio controls provide a reliable communications link and fill an important need in portable wireless signalling. However, there are some limitations which must be observed.

- * For U.S. installations only: The radios are required to comply with FCC Rules and Regulations as Part 15 devices. 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 radio signals that occur on or near their operating frequencies, regardless of code settings.
- * Changes or modifications to the device may void FCC compliance.
- * Infrequently used radio links should be tested regularly to protect against undetected interference or fault.
- * A general knowledge of radio and its vagaries should be gained prior to acting as a wholesale distributor or dealer, and these facts should be communicated to the ultimate users.

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