

ΔP-4

# Wireless Access **Control Receiver**

Installation Instructions



MEGACODE

Toll Free FAX (800) 468-1340 www.linearcorp.com

#### SAFETY WARNING



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.

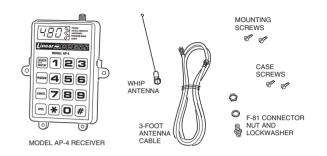
The AP-4 contains a high-gain UHF receiver which uses an external antenna to pick up signals from up to 250 feet away. Up to 480 Linear MegaCode® transmitters and one Model MGT safety edge transmitter can be programmed into the AP-4's memory. The AP-4 will retain its memory.

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 hardwired 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.





MOVING DOOR OR GATE CAN CAUSE SERIOUS INJURY OR DEATH









THIS UNIT CAUSES OPERATION OF A DOOR OR GATE MOTOR.

STAY CLEAR OF MOVING PARTS IF THIS UNIT IS MOUNTED **INSIDE THE DOOR OR GATE OPERATOR!** 

STAY CLEAR OF THE DOOR/GATE OR DISCONNECT THE ACCESS **RELAY WIRES WHEN PROGRAMMING OR SERVICING THIS UNIT!** 

### **AP-4 FEATURES**

NUMERIC KEYPAD

AND UTILITY FUNCTION NUMBERS.

1 23

4

[CANCEL **7 8 9** 

\*0#

56

FOR ENTERING TRANSMITTER

ID NUMBERS, PROGRAMMING,

DIGITAL DISPLAY DISPLAYS LAST 3 DIGITS OF THE TRANSMITTERS ID NUMBER DURING OPERATION AND PROGRAMMING. ALSO DISPLAYS MGT SUPERVISION STATUS AND SYSTEM LITH ITY INFORMATION

#### **DISPLAY BUTTON** SHIFTS THE DISPLAY TO SHOW

PROGRAM BUTTON THE LEFT THREE DIGITS OF THE PUSH FOR 3 SECONDS TO ENTER 6-DIGIT TRANSMITTER ID NUMBER PROGRAM MODE, PRESS MOMENTARILY DURING OPERATION OR TO EXIT PROGRAM MODE. **PROGRAMMING** 

#### CANCEL BUTTON

CLEARS THE KEYPAD AND DISPLAY IN CASE OF AN INCORRECT PROGRAMMING ENTRY, ALSO CLEARS ANY SUPERVISORY TROUBLE CODES FROM AN MGT OBSTACLE TRANSMITTER.

#### OPEN BUTTON

PUSH TO ACTIVATE THE ACCESS BELAY

#### 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 )

## ANTENNA CONNECTOR FOR DIRECT CONNECTION TO THE LOCAL

LIGHTS WHEN AC OR DC POWER WHIP ANTENNA OR, WITH A COAX CABLE, IS APPLIED TO THE UNIT. 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

POWER INDICATOR

## 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

REMOTE FIXED ANTENNA

OR EXA-2000 ANTENNA MOUNTED

USE THE OPTIONAL EXA-1000

AS HIGH AS POSSIBLE FOR

FREQUENCY IS DETECTED. #-1 DISPLAYS THE MGT SUPERVISORY STATUS. #-2 DISPLAYS NUMBER OF PROGRAMMED TRANSMITTERS.

#-3 DISPLAYS NUMBER OF PROGRAMMED TRANSMITTER ID BLOCKS.

POUND (#) KEY

LOCAL WHIP ANTENNA

480

123

456

**789** 

**\* 0 #** 

ATTACH THE LOCAL

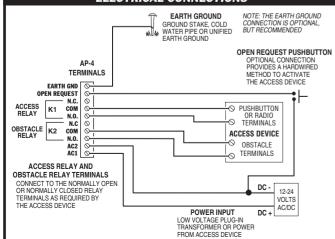
WHIP ANTENNA

DIRECTLY TO

THE RECEIVER

PRESS # THEN 1-3 FOR UTILITY FUNCTIONS

## **ELECTRICAL CONNECTIONS**



#### RECEIVER INSTALLATION

# MOUNT THE RECEIVER USING THE TWO SCREWS PROVIDED Linear A ROGER 123 CANCE 789 ··· \* • # CLOSE THE CASE AND SECURE IT USING THE TWO SCREWS PROVIDED

NOTES: MOUNT RECEIVER IN AN AREA PROTECTED FROM THE ELEMENTS 2. IF USING THE LOCAL WHIP ANTENNA. THE HIGHER THE

3. OPTIONALLY, MOUNT THE

# ANTENNA INSTALLATION

REMOTE WHIP ANTENNA MOUNT THE F-81 CONNECTOR ON THE SUBFACE USING THE LOCKWASHER AND NUT

CONNECT TO THE RECEIVER WITH THE COAX CABLE AND SCREW THE WHIP ANTENNA TO THE F-81 CONNECTOR

# ATTACH WHIP ANTENNA TO THIS SIDE

THE BEST RADIO RANGE CONNECT TO THE RECEIVER WITH AN RG-59 COAX CABLE

FXA-1000 ANTENNA EXA-2000 DIRECTIONAL ANTENNA CONNECTOR COAX TO

RECEIVER IS MOUNTED. THE BETTER THE RADIO RANGE WILL BE

RECEIVER IN A METAL CABINET AND USE AN EXTERNAL ANTENNA

