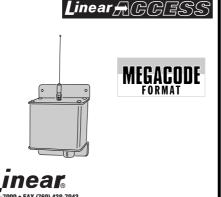
## WOR

Wiegand
Output
Receiver

Installation Instructions



#### INTRODUCTION

The Model WOR remote radio receiver is designed for use as an access control interface for Linear's block coded digital transmitters. The unit receives signals from transmitters, adds a facility code to the data, and sends the information to the Wiegand input of the access control panel via a 5-wire connection.

Several transmitter and receiver options can be set using the unit's dipswitches. Three different Wiegand output formats (26, 30, & 31-bit) are supported. Three receiver options (lockout, hold, & button offset) can be set. Transmitter buttons on multi-button units can be selectively disabled. The facility code is set using 16 dipswitches.

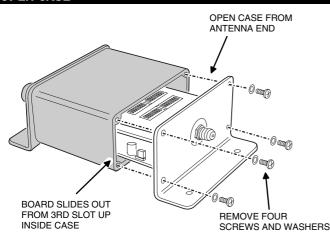
Three antenna types can be used with this receiver. The local whip antenna (supplied) screws directly on to the receiver. The directional (EXA-2000) and omni-directional (EXA-1000) remote antennas attach to the receiver's antenna input via RG-59 cable and a type "F" connector.

An on-board RADIO RANGE knob allows adjustment of the receiver's gain. It can be set to limit the maximum radio range that the receiver can achieve. Two indicators display the receivers performance and operation. The red RADIO indicator lights when the receiver detects a radio signal. The two color red/green STATUS indicator lights green when the receiver is sending Wiegand data and during the 1-second post receiver lockout timer (if receiver lockout is enabled). The indicator turns red when the receiver's HOLD input (connected to the access control panel) is active. Receiver test points are provided for listening to the incoming signals with an audio amplifier.

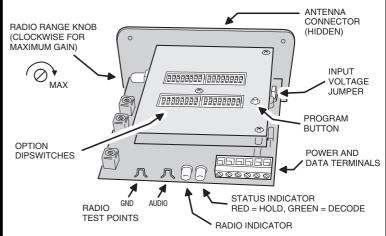
Power input to the receiver can be either regulated 5 volts or 8-24 volts DC (jumper selected).

The receiver is housed in a weather-resistant enclosure and can be mounted indoors or outdoors. Gaskets and a weather-tight wiring strain relief seal the unit from the elements.

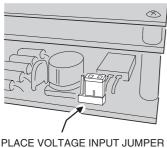
#### 1. OPEN CASE



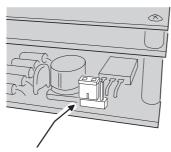
#### 2. LOCATE COMPONENTS



#### 3. SET VOLTAGE INPUT JUMPER

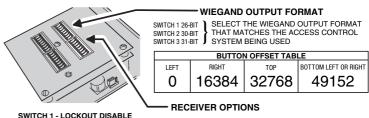


IN THIS POSITION TO SELECT A 8-24 VOLT DC INPUT FROM THE ACCESS CONTROL PANEL



PLACE VOLTAGE INPUT JUMPER IN THIS POSITION TO SELECT A REGULATED 5 VOLT DC INPUT FROM THE ACCESS CONTROL PANEL

#### I. SET OUTPUT FORMAT & RECEIVER OPTIONS



OFF- (FACTORY SETTING) CAUSES RECEIVER TO IGNORE TRANSMITTER SIGNALS FOR ONE SECOND AFTER A VALIDATED TRANSMISSION.

ON-ALLOWS RECEIVER TO PASS WIEGAND DATA INSTANTLY WITH EACH VALIDATED TRANSMISSION.

#### SWITCH 2 - HOLD ENABLE

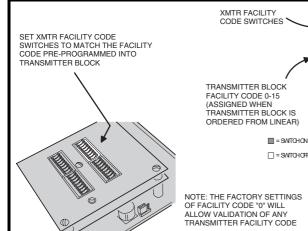
OFF - (FACTORY SETTING) HOLD INPUT SIGNALS ARE IGNORED.

ON - WHEN HOLD INPUT IS ACTIVE, ANY WIEGAND DATA WILL BE HELD FOR A MAXIMUM OF ONE SECOND THEN DISCARDED UNLESS THE HOLD INPUT IS RELEASED DURING THE ONE SECOND TIME.

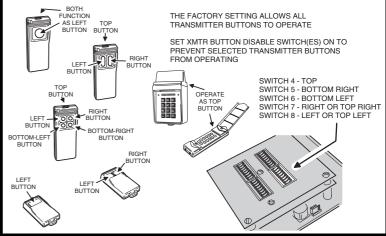
#### SWITCH 3 - BUTTON OFFSET ENABLE

OFF- (FACTORY SETTING) TRANSMITTERS PASS THEIR ID NUMBER TO THE WIEGAND OUTPUT WITHOUT ANY CHANGES.
ON- THE TRANSMITTER ID IS OFFSET TO THE RANGE ABOVE, BASED ON WHICH BUTTON IS PRESSED.

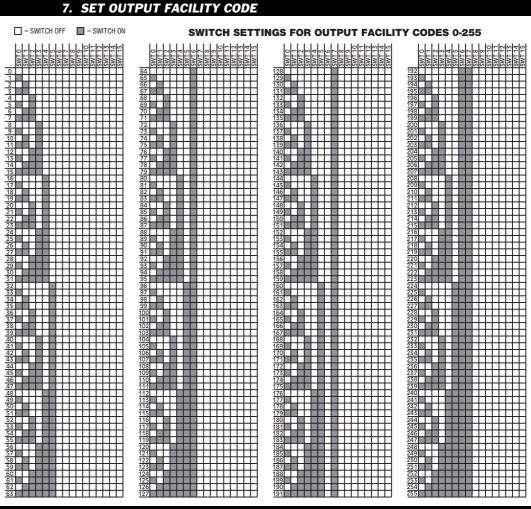
#### 5. SET TRANSMITTER FACILITY CODE



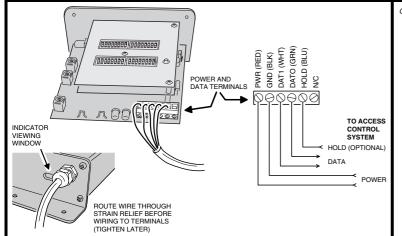
### 6. SET TRANSMITTER BUTTON OPTIONS



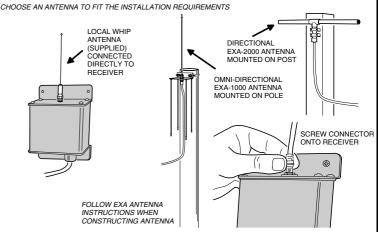
# OUTPUT FACILITY CODE Ø WILL PASS THROUGH THE TRANSMITTER FACILITY CODE



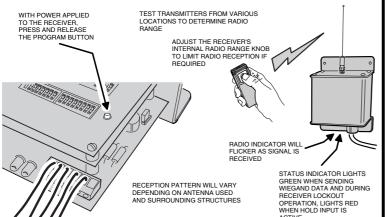
#### 8. CONNECT TERMINALS



#### 9. CONNECT ANTENNA



#### 10. PROGRAM AND TEST SYSTEM



#### 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.

All products returned for warranty service require a Return Product Authorization Number (RPA#). Contact Linear Technical Services at 1-800-421-1587 for an RPA# and other important details.

#### 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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