

MD-81

RS-232 to Wiegand Output Convertor Installation Manual

1. Introduction

The MD-81 is designed to be used with the AY-U900 and AY-U910 UHF readers. It converts the UHF reader data from RS-232 to a stream of ID data in either Wiegand 26-Bit or a Wiegand 34-Bit format. The Wiegand format is determined by the UHF reader.

The MD-81 allows the AY-U900/U910 to read the ID of up to 70 cards via RS-232 and then send each card's ID output one by one every 2.5 seconds to the access controller in Wiegand data format.

1.1 Box Content

- 1 MD-81 unit
- 1 RS-232 cable
- 1 RS-232 transfer connector

Figure 1: MD-81



2. Technical Specifications

2.1 Electrical Characteristics

Operating Voltage	12 to 15 VDC
Operation Current	23 to 30 mA

2.2 Environmental Characteristics

Operating Environment	Indoor use only
Operating Temperature Range	0°C to 63°C (32°F to 145°F)
Operating Humidity Range	0 to 95% (non-condensing)

2.3 Physical Characteristics

Dimensions	80 x 66 x 28 mm (3.2 x 2.6 x 1.1 in.)
Weight	75 g (2.6 oz)

3. Connecting the MD-81

Refer to Figure 2 below when connecting the MD-81 convertor.



When connecting the MD-81 with the UHF reader, the UHF reader must be in Command mode, which is set using the UHF Reader Application (see the AY-U900/U910 installation and software manuals).

To connect the reader:

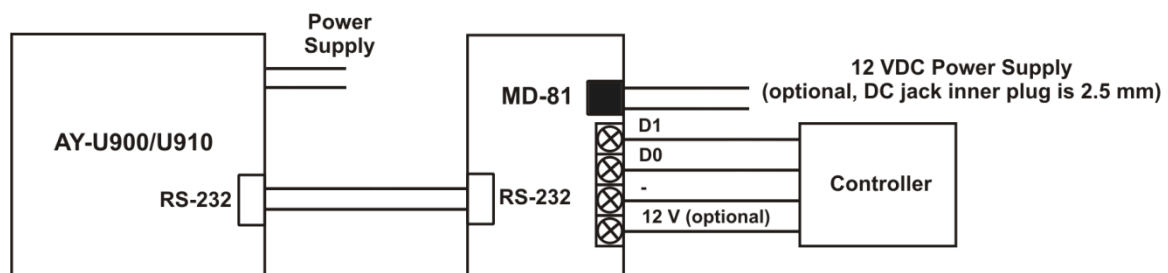
1. Connect the RS-232 cable (included) between the AY-U900/U910 reader and the MD-81.
2. Connect the MD-81 terminals to the access controller Wiegand reader port (4-wires).
3. Connect power to the UHF reader
4. Connect power to the MD-81, either from the controller or from an external power supply.



If the MD-81 is connected to a controller using the the 12 V terminal block, no external 12 VDC power supply is needed.
If the MD-81 is connected to an external 12 VDC power supply, the 12 V terminal block must be disconnected.

5. Power on the UHF reader and then power on the MD-81.

Figure 2: MD-81 Wiring



Limited Warranty

The full ROSSLARE Limited Warranty Statement is available in the Quick Links section on the ROSSLARE website at www.rosslaresecurity.com.

Rosslare considers any use of this product as agreement to the Warranty Terms even if you do not review them.

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