

MD-08

Wiegand to RS-232 Output Converter

Installation and User Manual

1. Introduction

The MD-08 is an easy-to-use Wiegand to RS-232 converter. It allows you to connect a Wiegand reader directly to one of your PC's COM ports. The MD-08 allows you to set employee and system codes without having to use a reader attached to a controller in the network.

Figure 1: MD-08



2. Technical Specifications

2.1 Electrical Characteristics

Power Supply	Either 2 terminal blocks or a DC jack. A reader can use a sink up to 100 mA
Electrical Sink	Up to 100 mA
Operating Voltage	9 to 15 VDC
Maximum Voltage	18 VDC
Input Current @ 12 V	10 to 12 mA (without reader)
Serial Interface	Standard DB9 female

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	66 x 80 mm (2.60 x 3.15 in.)
Weight	75 g (2.6 oz)

3. Connecting to the MD-08

Note You must use the AxTraxNG software to enroll cards. Please refer to the relevant appendix in the *AxTraxNG™ Software Installation and User Manual*.

There are three ways to attach Wiegand readers to the MD-08:

- Wiring a reader directly to the MD-08's terminal block (Figure 2)
- Attaching a Rosslare reader directly to the MD-08's connector input (Figure 3)
- Installing Rosslare's MD-12W Proximity Reader Module directly into the MD-08 (Figure 4)

Figure 2: MD-08 Terminal Block Wiring

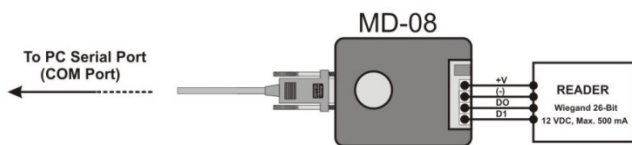
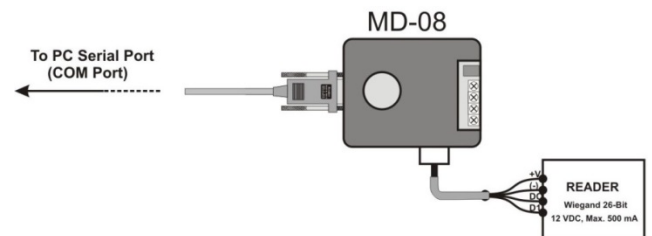
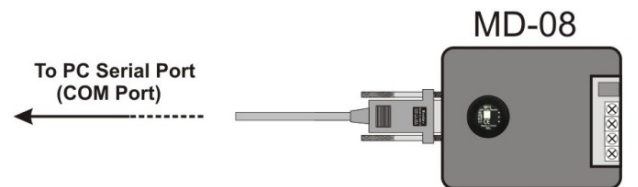


Figure 3: MD-08 Connector to Reader



(Readers are not provided with the MD-08 and must be purchased separately.)

Figure 4: MD-12W to MD-08



(The MD-12W is not provided with the MD-08 and must be purchased separately.)

4. Communication Settings

The communication settings are 9600 baud, 8 bits, 1 stop bit and no parity.

The message is in the following format:

SS	02	FF	02	FF	00	0E	29	YY	DD	XX
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Where:

- SS is the start frame: FF, FF, FF, 55
- YY is the number of Wiegand reception bits (in hexadecimal base)
- XX is the message check sum (without the start frame)
- DD is the incoming Wiegand bits data up to 96.

For less than 96 bits (for example 26-Bit only), the data contain leading zeroes (70 leading zeroes for Wiegand 26-Bit).

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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