MD-W11

Wireless Access Control Door Interface

THE MD-W11 IS A QUICK AND INEXPENSIVE SOLUTION FOR CONNECTING REMOTE DOOR DEVICES SUCH AS READERS, LOCKS, AND REX BUTTONS TO AN ACCESS CONTROL UNIT. THE UNIT UTILIZES BI-DIRECTIONAL RF DATA COMMUNICATION TO RELAY WIEGAND CARD AND PIN CODE DATA, LOCK AND DOOR RELAY COMMANDS, AS WELL AS TAMPER, DOOR MONITOR, AND REX MESSAGES BETWEEN THE CONTROLLER AND THE INTERFACE UNIT. THE INTERFACE IS BASED ON TWO UNITS PER DOOR, ONE LOCATED NEAR THE CONTROLLER AND THE OTHER NEAR THE DOOR.

GENERAL DESCRIPTION

The MD-W11 Wireless Access Control Door interface consists of two units per door, one located near the controller (the Near unit) and the other near the door (the Far unit). The Near unit is connected to a Rosslare door controller The Far unit is connected to proximity card readers or keypads. A local charger and backup battery option for the remote unit keeps the door and reader functioning even during power loss.

Full supervision of the remote unit and event signals including supervision failure, tamper, low battery, and power loss of the Far unit are reported to the Near unit and to the controller.

Bi-directional RF communication with data protection uses fast proprietary, anti-collision and rolling code protocol; narrow band RF provides high reliability of the wireless link on regular ISM bands.

MAIN FEATURES

- Maximum range of 70 meters (230 ft) indoors and up to 300 meters (985 ft) outdoors with an external fixed antenna, depending on RF related environmental conditions
- Overall response time of 500 ms when used with Rosslare's AC-225 controller and readers. Response time depends on RF link quality, the number of doors used, and the controller and reader's response time.
- Built-in charger for up to 7 Ah backup battery on the remote unit
- Compatible with all of Rosslare's readers and with many third-party standard Wiegand readers
- Separate sets of terminals for door and controller connections
- Case and wall tamper protection. Tamper events from either Near or Far sides are reported using a tamper output on the Near unit

PROFESSIONAL GRADE FEATURES

- Transfers proximity card information as well as LED control, reader tamper, lock relay commands, and REX and Door Monitor events between the coupled units
- The Near unit is powered using the controller's power supply. The Far unit is powered by a local wall transformer. A built-in charger provides a power backup option
- Protected housing with space for Rosslare's BT-04, 12 VDC 800 mAh, Sealed Lead-Acid battery. Suitable for Indoor use
- Available in HR-869 MHz and GR-433 MHz bands

ROSSLARE
SECURITY PRODUCTS

SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

■ Operating Voltage Range	Far unit: 12–24 VAC, 15–24 VDC Near unit: 13.8 VDC from controller's power supply/wall adapter
■ Input Current, Max	Standby: 70 mA Maximum: 160 mA
■ Battery Charger	12 V Sealed Lead-Acid, up to 7 Ah (far unit only)

OPERATIONAL SPECIFICATIONS

■ Maximum Range	Indoors: 70 m (230 ft), Outdoors: 300 m (985 ft) Range depends on RF related environmental conditions
■ Response Time	Up to 500 ms with Rosslare's access controllers and readers Response time depends on RF link quality, number of doors used, and controller and reader response time
■ Output Relays	Far unit: One 5 A Form-C relay Near unit: Two 1 A Form-C relays
■ Output Types	Dry contact and open collector
■ Communications	Bi-directional RF, narrow band. Fast anti-collision rolling code protocol with data protection. Available in HR-869 MHz and GR-433 MHz bands, with four selectable channels
■ Data Transfer	Card and PIN, lock commands, REX, door monitor, LED control and reader tamper
■ Supervisory & Alerts	Full supervision over the remote unit Alert outputs at the Near unit for supervision failure, system tamper, reader tamper, low battery, and power failure
■ Supported Card transmission formats	Wiegand 26-, 32- ,34- , and 40-Bit, 26-Bit with Facility code, 32-Bit Reverse
■ Supported PIN code formats	Single key Wiegand 6-Bit (Rosslare format with parity), Single key Wiegand 8-Bit, 4 keys binary Wiegand 26-Bit, 1 to 5 keys, Wiegand 26-Bit, 6 keys BCD and parity bits

ENVIRONMENTAL SPECIFICATIONS

■ Operating Temperature	-10°C to 50°C (14°F to 122°F)
■ Operating Humidity	0 to 95% (non-condensing)
■ Operating environment	Indoor use

PHYSICAL SPECIFICATIONS

■ Dimensions (H x W x D)	13 x 8.7 x 3.2 cm (5.1 x 3.42 x 1.26 in.)
■ Weight	155 g (5.5 oz)

SYSTEM COMPONENTS	Rosslare's Access Control Panels Rosslare's 26-Bit readers
PRODUCT WARRANTY	2-year Limited Product Warranty

ABOUT ROSSLARE SECURITY
Rosslare Security Products, a division of Rosslare Enterprises Ltd., has been manufacturing high-quality security products since 1980. The company's three main lines – Access Control, Intrusion Detection and Guard Patrol – together with a growing product range have transformed Rosslare Security into a major worldwide force in security. Rosslare holds itself to the highest standards of customer service and manufacturing (ISO 9001:2008, ISO 14001:2004, ISO 13485:2003). The company complies with the EU Directive 2002/95/EC on Restriction of Hazardous Substances (RoHS).

www.rosslaresecurity.com

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