

ER502

ER502 Reader Interface Unit



Matrix V offers a single reader interface unit (RIU) module for access control solutions. The ER504 can be equipped with 1 ENTRY and 1 EXIT reader. Access control card readers, keypads, for readers with keypads that use standard Wiegand Data1/Data 0 or clock are supported. The ER502 employs 2 Wire RS-485 data communications. Lock, unlock and customer code functions, are supported on all readers connected to the RIU. Each RIU supports up to 7 different card formats as well as customer codes for both magnetic and wiegand card formats.

The RIU provides a vital link between, Advanced Multi Door Controller (AMDC) System, and the card reader attached to the interface. As many as 8 ER502 RIU modules can be multidropped using RS-485 2 wire communication up to 1km per port away from the AMDC. You may have a combination of ER502, ER504, ER505 or EK9i units on the same bus, for a maximum of 8 access points.

Each RIU is individually addressed for increased reporting capabilities with Matrix V Access Control Software applications. ER502 provides ample input & output points to include 8 inputs that supports normally open normally closed, supervised and non-supervised circuits. The RIU also supports up to 6 output relays support failsafe or fail secure operations.

Features & Functionalities

- 12 VDC power supply
- Supports Data1/Data0, Clock/Data and Keypads
- UP to 7 different card formats
- Customer Code Support
- Door Contact Open or Closed, Supervised or non supervised
- Push Button Monitor
- Bi Color or 2 wire status LED support
- Reader Beeper control
- Elevator Control, support for 32 floors
- Enhanced baud rate

ER502 Reader Interface Unit

| | |
|--------------------------|--|
| Model | ER502 |
| Manufacturer | ELID Sdn Bhd |
| Country of Origin | Malaysia |
| Microprocessor | 16-bit MCU (MC9S12GC128) with 128K flash memory and 4K RAM |
| Bus Speed | 25.8048 MHz |
| Communication | 2 wires RS485 Interface (Data+, Data-) |
| Baud Rate | 9600bps or 57600bps |
| Protocol | Peer-to-peer collision detection protocol (E-BUS) |
| Max. Doors Supported | 1 Door |
| Standalone Operation | No |
| Modes of Operation | Card, PIN, Card + PIN, Time Clock |
| Status Detection | Tamper, Battery and Alternating Current |
| Type of Reader Supported | Proximity (HID, EM, MiFare, Barcode 3of9 and ITF) |

ER502

ER502 Reader Interface Unit

| | |
|--------------------------|--------------------------------|
| Max. Readers Supported | 2 (one IN and one OUT) |
| EA8 I / O Capacity | 1 EA8 (2 Inputs and 6 Outputs) |
| Onboard Inputs / Outputs | 8 Inputs, 4 Outputs |
| Operating Temperature | 0°C to 60°C |
| Humidity | 10% to 90% non-condensing |
| Power Requirements | 12VDC 100mA excluding reader |
| Approximate Weight | 400grams |

