



EC-Net Access Field Hardware



Overview

Field hardware used for EC-Net Access includes a remote reader module and remote IO module. The modules are connected to an EC-BOS embedded controller platform to remotely control and monitor access control devices. Using a standard RS-485 multi-drop communication bus, the modules can be located up to 4,000 feet from the EC-BOS.

Features & Benefits

- The **Remote Reader module**:
 - Interface for two typical access-controlled doors.
 - Two Wiegand reader ports compatible with most standard Wiegand proximity readers are included, along with four supervised inputs for monitoring the status of doors and requests-to-exit, and two form C relay outputs for controlling door locks.
 - Two additional non-supervised inputs are provided for monitoring the status of the enclosure door or power supply.
- The **Remote IO module**:
 - Eight supervised inputs for monitoring dry contacts from access devices, such as motion sensors, glass break detectors, door and window status switches, and other critical building alarms.
 - Eight form-C relay outputs may be used for controlling alarm indicating devices, elevator floor control, alarm dialers, door locks, and other building equipment.
 - Two additional non-supervised inputs are provided for monitoring enclosure door status or power supply status.

Ordering Information

Part	Description
EC-Net Access Remote Reader	2 card reader inputs, 4 supervised inputs, 2 digital inputs, 2 form C (SPDT) relay outputs
EC-Net Access Remote IO	Remote I/O module - 8 supervised inputs, 2 digital inputs, 8 form C (SPDT) relay outputs

System Capacities

Device	Access Network
EC-BOS-8	16 remote reader modules and/or remote IO modules in any combination

Product Specifications

Remote Reader Module

Supply voltage	12-15 VDC, .07 A
Supervised digital inputs	4
Form c relay outputs	2 form-C relay outputs, 3A @ 24 V (2x)
Digital inputs	2
Card reader ports	2 Wiegand ports
Communication port	1x RS-485
Operating temperature	0° to 50°C (32°F to 122°F)
Storage temperature	0° to 60°C (32°F to 140°F)
Relative humidity	5% to 95%, non-condensing
Mounting	DIN rail or surface mount

Standards and Regulations

For the Remote Reader	FCC
and IO modules	CE
	UL 294
	RoHS



Remote IO Module

Supply voltage	12-15 VDC, .4 A
Digital inputs	8 supervised digital inputs
Form-c relay outputs	8 form-c relay outputs, 3A @ 24 V
Digital inputs	2
Communication port	1x RS-485
Operating temperature	0° to 50°C (32°F to 122°F)
Storage temperature	0° to 60°C (32°F to 140°F)
Relative humidity	5% to 95%, non-condensing
Mounting	DIN rail or surface mount

Specifications subject to change without notice.

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