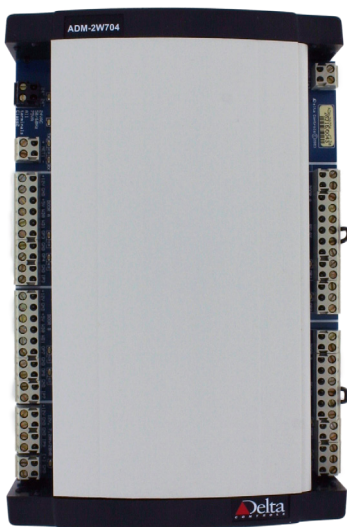# Access Door Module

ADM-2W704

Description

The ADM-2W704 is an intelligent device used for access control of two single-direction doors, or one bi-directional door. When connected to an Access System Manager (ASM) on a Delta LINKnet network, it provides remote, fully programmable, door access control and expanded I/O capabilities.

Application

The ADM-2W704 is designed for access control of 2 single direction doors or 1 bi-directional door. Up to 12 door modules may be connected to an Access System Manager (ASM-24E) via LINKnet.

The ADM-2W704 is equipped with a built-in battery charging circuit to provide optional battery backup for the Controller, all of its peripheral equipment (i.e. Card Readers, Door strikes, and Maglocks) and the Access System Manager when the AC power fails.

All external inputs can be monitored for wiring status using EOL devices (Types 1, 2, 3, 4), which give trouble indication as well as normal and alarm conditions.

Features

▶ Controls 2 single-direction doors or one bi-directional door

▶ 2 Weigand input ports per board

▶ Can operate under a degraded mode of operation in the event of communication failure

▶ Communicates on LINKnet

▶ Configurable Wiegand card format up to 64 bits

▶ All external inputs can be monitored to give status of the input wiring using EOL devices (Types 1, 2, 3, 4)

▶ Easy-to-mount housing

▶ Designed for easy field wiring

▶ Equipped with battery charging circuit

Specifications

Card Reader
2 Wiegand services (card reader, keypad, biometric device, etc.)

Inputs
EOL supervised inputs (Types: 1, 2, 3, 4)

2 door contacts

2 Request-to-exit switches

2 Auxiliary (i.e. tamper from Card Reader, motion detector—used in access/security,etc.)

1 Tamper switch

Outputs
2 Doorstrike/maglocks, Form C Relay 5 A @ 24 VDC/AC, MOV protection. +12 VDC @ 350 mA available for each lock (lock power protected, internally wired and monitored)

4 LED driver, open-controller current sink @ 50 mA, 24 VDC max, current limited, (LED or Buzzer driver)

2 Auxiliary relays, Form C Relay 5 A @ 24 VDC/AC, MOV protection

Device Addressing
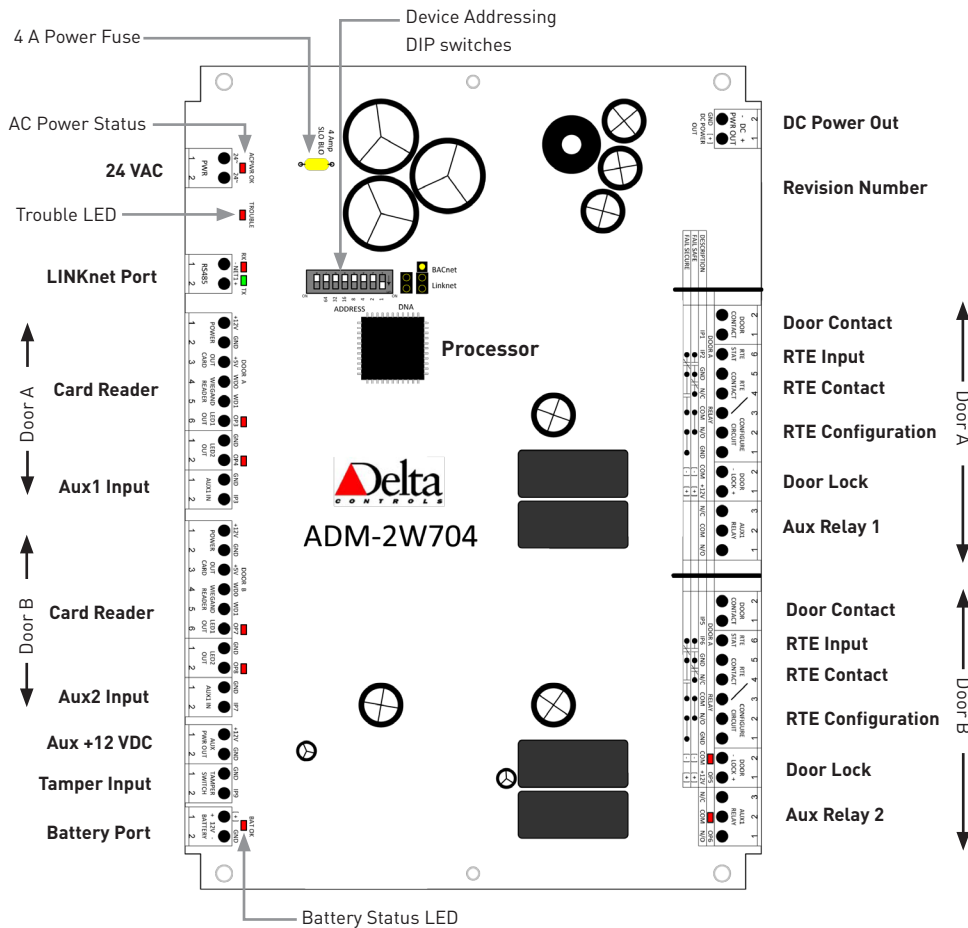Set via DIP switches (standard device address range: 0 to 12 on LINKnet)

Connectors
Removable screw-type terminal connectors

Wiring Class
Class 2

Delta
C O N T R O L S

Access Door Module

ADM-2W704: Board Layout Diagram

4 A Power Fuse

Device Addressing
DIP switches

AC Power Status

24 VAC

Trouble LED

LINKnet Port

Card Reader

Door A

Aux1 Input

Card Reader

Door B

Aux2 Input

Aux +12 VDC

Tamper Input

Battery Port

Battery Status LED

BACnet
Linknet

Processor

ADM-2W704

DC Power Out

Revision Number

Door Contact

RTE Input

RTE Contact

RTE Configuration

Door Lock

Aux Relay 1

Door A

Door Contact

RTE Input

RTE Contact

RTE Configuration

Door Lock

Aux Relay 2

Door B

Specifications (Continued)

Power
24 VAC @ 75 VA

Note: transformer must not
be shared with any other products

Output Voltages
2 Card readers +5 VDC @ 50 mA each,
(0.10 A total) each individually fused with
a resettable fuse

2 Card readers +12 VDC @ 160 mA each,
(0.32 A total) each individually fused with
a resettable fuse

1 Auxiliary +12 VDC @ 50 mA, fused with
a resettable fuse

1 DC Power out +10 to +15 VDC @ 0.25 A
fused with a resettable fuse

Communications Ports
Delta LINKnet @ 76800 bps (max 12 door
modules per ASM-24E)

Ambient
32º to 131ºF (0º to 55ºC)
10 to 90% RH (non-condensing)

Dimensions
5 ⅞ x 9.5 x 2.5 in.
(14.8 x 24.1 x 6.4 cm) with housing

Weight
1.49 lb. (680 g) with housing

Compliance
CE
FCC

Listings
UL 294 Listed

Updated October 2014

Ordering

ADM-2W704	2-Door Module

Accessories

SR-2400	Sentinel-Prox SR-2400 4 to 5.5 in. Read Range, Metal Compensated, Indoor/Outdoor
MM-6800	Sentinel-Prox MM-6800 6 to 8 in. Read Range, Metal Compensated, Indoor/Outdoor
SP-6820	Sentinel-Prox SP-6820 6 to 8 in. Read Range, Single Gang Box Mount
MR-1824	Sentinel-Prox MR-1824 18 to 24 inch Read Range, Dimensions Only 8 x 8 x 1 in., Indoor/Outdoor
MR-1824MC	Sentinel-Prox MR-1824 MC Metal Compensated Version
Prox-Linc-GR	Graphics Quality, both sides, ISO-compliant
Prox-Linc-GR	Graphic Quality ISO with 3-track High CO ABA magnetic stripe
Prox-Linc-CS	Clam Shell style Prox Badge, pre-punched in portrait orientation
Prox-Linc-KT	Proximity Key Tag (key fob)

Subject to change without notice.