

## EM-100

### Exit Reader Module

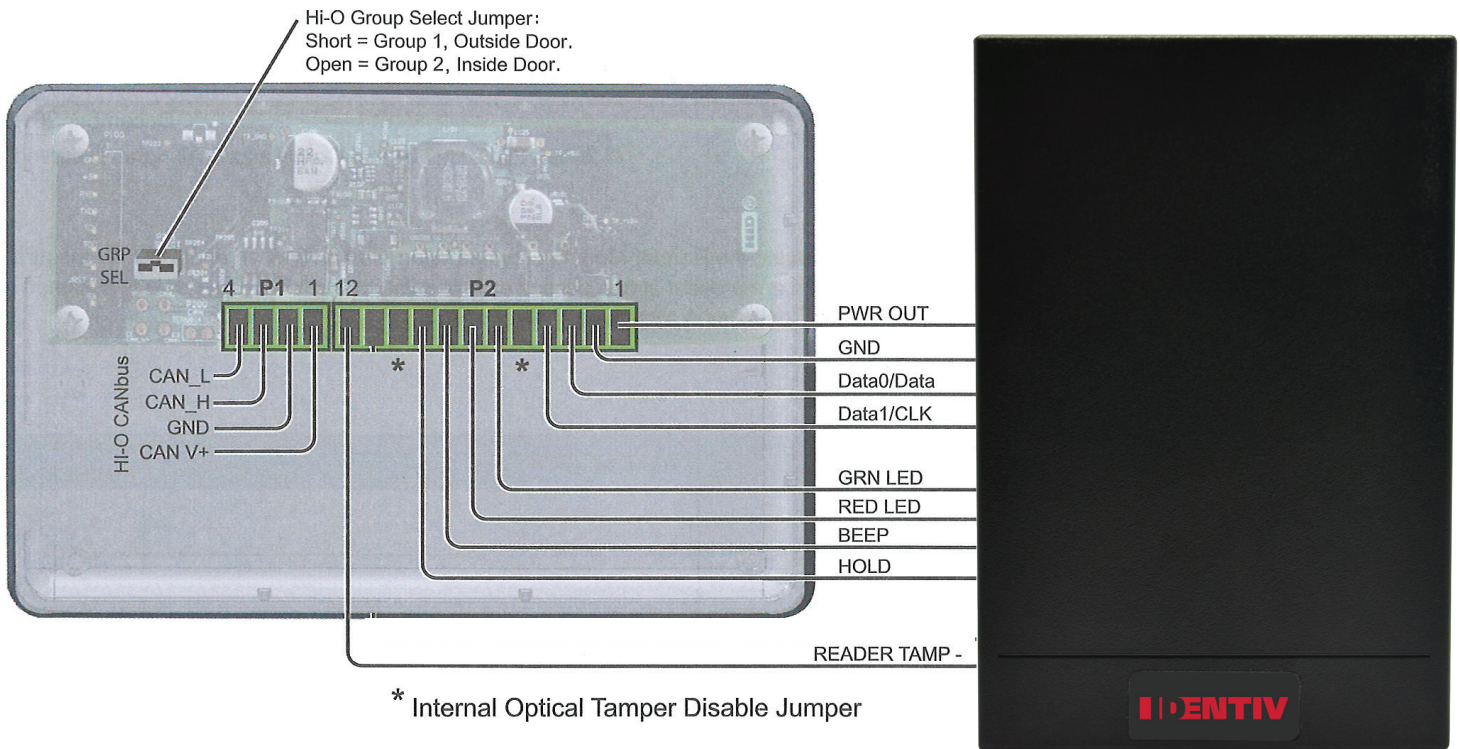
ICPAM-MOD-EXIT

## Installation Guide

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Designed for interfacing EM-100 Module CAN bus interface to a traditional Wiegand reader, the Reader Module provides Wiegand and typical reader I/O. Configure the module in two ways, either a Group 1 or Group 2 device. When two readers are present at one access control point, the secure reader side is assigned Group 1. The internal TS Reader within an EM-100 Standard Reader/Controller is always assigned Group 2.

### Wiring



Note: Use Ground (GND) for the drain or tie the drain to the reader ground if the reader is not powered off of the module (5 VDC reader).

### Internal Optical Tamper Disable Jumpers

To disable the internal optical tamper sensor, attach a jumper wire from P2 pin 10 to P2 pin 5.

Note: If desiring an external tamper, wire an unsupervised Normally Closed contact, replacing the pre-installed jumper.

### Reader Tamper

The Reader Tamper + and - are implemented allowing a connection for an open collector external tamper from a reader, such as iCLASS.

Note: Connect P2, Pin 2 (GND) from the Reader Interfacer.

PARAMETER		VOLTAGE DC (VDC)	CURRENT (AMP)	POWER (W)	OPERATING	CABLE LENGTH	UL REF NUMBER
Input	DC Input (NSC)	+12 VDC	0.03 Amp	0.36	32° - 122°F (0° - 50° C)	Wiegand = 500 ft (152.4 m) - 22 AWG • 0.65mm • 0.33mm <sup>2</sup>	MEWMAxNN x = K for Black G for Grey
		+24 VDC		0.72			
	DC Input (MAX)	+12 VDC	0.70 Amp	8.4			
		+24 VDC		16.8			
Data 1/CLK , Data 0/Data (MAX)		0-5 VDC Reference	N/A	N/A			
Output	Reader PWR Output VDC (MAX)	AUX 12 VDC @ Controller	0.30 Amp*	3.67			
		AUX 24 VDC @ Controller	+9.8 to +12.25 VDC	0.60 Amp*	7.35		
		PoE Input @ Controller		0.50 Amp*	6.12		
	GRN LED, RED LED, Beep and Hold (MAX)		0-5 VDC Reference	0.005 Amp (sink)	0.025		
	External Tamper - (MAX)		+5 VDC (NOM)	0.017Amp	0.085		

NSC = Normal Standby Condition

1.2 Amp (+24VDC AUX Input, 28.8 W)

\* Combined output rating not to exceed  $V \cdot I = W$

1.2 Amp (+12VDC AUX Input, 12.96 W)

## Regulatory

### UL

Connect only to a Listed Access Control / Burglary power-limited power supply, or Listed Access Control / Burglary PoE (Power-over-Ethernet) adapter.

All National and local Electrical codes apply. Install in accordance with NFPA70 (NEC), Local Codes, and authorities having jurisdiction.

Indoor use only.

Exit Reader Modules are UL Listed for installation within a protected area.

Mount onto UL Listed Single-Gang electrical box.

All panic and alarm hardware and equipment shall be UL Listed.

All cabling and wire shall be UL Listed or Recognized and suitable for the application.

All splices and connections shall be mechanically secure and bonded electrically.

For operation, testing and maintenance, refer to the EM-100 User Guide.

CAUTION: Any changes or modifications to this device not explicitly approved by the manufacturer could void your authority to operate this equipment.

### FCC

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

### Canada Radio Certification

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

### CE MARKING

Identiv hereby declares that these modules are in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

The controller portion is in compliance with the essential requirements and other relevant provision of Directive 2004/108/EC.

### JAPAN MIC

この装置は認証済みです。

### TAIWAN NCC

經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前項合法通信，指依電信法規定作業之無線電通信。低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

According to «Administrative Regulations on Low Power Radio Waves Radiated Devices» without permission granted by the NCC, any company, enterprise, or user is not allowed to change frequency, enhance transmitting power or alter original characteristic as well as performance to an approved low power radio-frequency devices. The low power radio-frequency devices shall not influence aircraft security and interfere legal communications; If found, the user shall cease operating immediately until no interference is achieved. The said legal communications means radio communications is operated in compliance with the Telecommunications Act.

The low power radio-frequency devices must be susceptible with the interference from legal communications or ISM radio wave radiated devices.

### Corporate Headquarters

2201 Walnut Ave., Suite 100  
Fremont, CA 94538

### Operational Headquarters

1900-B Carnegie Avenue  
Santa Ana, CA 92705

Phone: +1 888-809-8880

Email: sales@identiv.com