

Infinity

EMX 190, EMX 190A Access Control Expansion Module

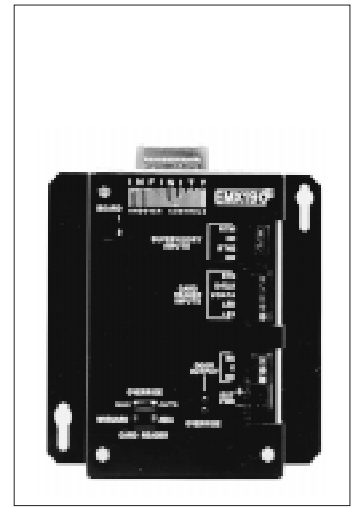
The EMX 190 provides cost-effective, modular expansion of an *Infinity* ACX 700 Access Control System. Each EMX 190 has one card reader input. The software flexibility of the ACX 700 allows the input to read Wiegand or Proximity cards, as well as voice verification and other biometric access control devices. The EMX 190 also includes one door status input, one request-to-exit input, and a Form C relay door output. Up to 2 EMX 190s can be attached to the ACX 700, for a total of 4 controlled doors per ACX 700.

For applications that do not need the sophisticated access control functions of the ACX 700, the EMX 190 also provides an extremely low-cost way to add door control to Andover's Inifinet distributed application controllers, utilizing the Andover Controls *Plain English*® programming language. The card reader input on the EMX 190 controls the door based on a program residing in the local Inifinet field controller.

The EMX 190A is similar to the EMX 190, but its reader input is designed for ABA magnetic stripe cards, reading clock-and-data format.

PROGRAMMING

The expansion points of the EMX 190 are treated in the same manner as the built-in I/O of each controller on the Inifinet field bus. Once expansion points are assigned using Andover's *Plain English*® programming language, they are automatically added to operator input and output summaries, and can be used unrestricted in programs, reports, and alarms.

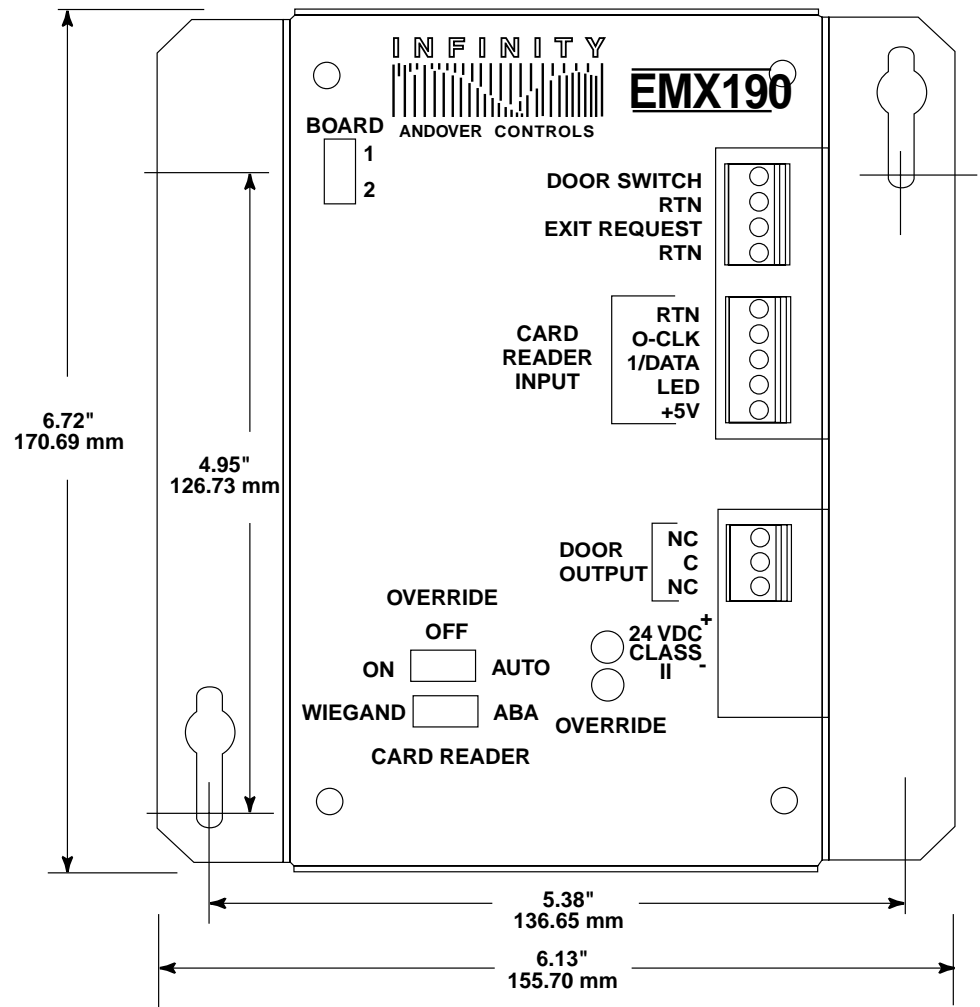


FEATURES

- **Cost-Effective Access Control Expansion Module**
- **Full Access Control Functionality When Attached to the ACX 700**
- **Expansion Module Adds Access Control Capability to Non-Access Inifinet Controllers**
- **Choice of Wiegand, Proximity, or ABA Card Reader Support**
- **Supervised Alarm Inputs Offer Flexibility in Door Control**
- **Additional Points Provide Seamless Controller Performance**
- **Modular Design for Easy Plug-in Installation**
- **UL 294 Agency Listing**

INSTALLATION

The EMX 190 is designed to be plugged into the expansion port found at the bottom of any Infinet controller that supports the EMX expansion bus. The expansion module enclosure is intended for panel mounting, using two sheet metal screws.



SPECIFICATIONS

ELECTRICAL

Power:	One EMX 190 can be powered directly from the attached Infinet controller. Second EMX 190 can be powered with an external 24 VDC power supply.
Power Consumption:	83 mA @ 24 VDC

MECHANICAL

Operating Environment:	32 to 120°F (0 to 49°C), 10 to 95% RH (non-condensing)
Enclosure Type:	UL open class sheet metal, IP 10
Dimensions:	6.13"W x 6.0"H x 1.52"D (155.7mmW x 152.4mmH x 38.6mmD)

COMMUNICATIONS

Communication Interface:	Through expansion serial port of the local Infinet controller.
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INPUTS/OUTPUTS

Inputs:	1 Card Reader, Wiegand or ABA. EMX 190 supports Wiegand protocol, up to 64 bits (Wiegand-Effect, Proximity cards). EMX 190A supports ABA magnetic stripe reading, using clock-and-data format, up to 256 bits. 1 Supervised Door Status Input (single resistor supervision) 1 Supervised Request-to-Exit Input (single resistor supervision)
Card Reader Power:	5 VDC, 35 mA
Distance, Card Reader to EMX 190:	500 ft. maximum
Outputs:	1 Form C Relay for Door Control
Output Rating:	24 VAC/DC, 5 amp
Output Protection:	1500 V transients
Override:	3-position switch for manual control of the relay, with software feedback

CONNECTIONS

External Power Connector:	2-position connector
I/O Connectors:	Removable two-piece terminal strips

SPECIFICATIONS (Cont'd)

GENERAL

EMX Modules /Infinet Controller: Consult the *Infinity Expansion Module Configuration Guide* for the maximum number of inputs/outputs allowed on each particular Infinet controller.

MODELS

EMX 190 Supports Wiegand and Proximity Cards

EMX 190A Supports ABA Magnetic Stripe Cards

AGENCY LISTINGS UL/CUL 916, 294, FCC, CE

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Consult *Andover Product Installation Guides* for exact installation instructions and specifications.

#DS-EMX190-B