

# ADC-AC-MR50

## SPECIFICATIONS

### INPUT POWER

12/24 VDC, 150mA max

### OUTPUT POWER

Input voltage pass-through

### COMMUNICATION

2-Wire RS-485

### INPUTS

One dedicated reader input  
Two programmable inputs  
One dedicated tamper input

### OUTPUTS

Two relay outputs:  
Relay 1: Normally open contact (NO):  
5A @ 30 VDC resistive  
Normally closed contact (NC):  
3A @ 30 VDC resistive  
Relay 2: 2A @ 30 VDC resistive  
Single-wire LED control  
Single-wire buzzer output

### CERTIFICATIONS

UL294 Recognized  
FCC Part 15 Class A  
CE Compliant  
RoHS (2011/65/EU & 2015/863)  
EU REACH (1907/2006)  
California Proposition 65  
NIST Certified Encryption

### DIMENSIONS

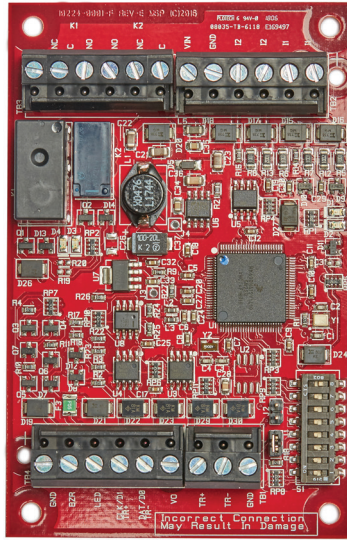
2.75 x 4.25 x 1.0" (70 x 108 x 25.4 mm)

### TEMPERATURE

-40 – 167°F (-40 – 75°C) operational  
-67 – 185°F (-55 – 85°C) storage

### OPERATING HUMIDITY

5-95% RHNC



# MR50 Single Reader Expansion Module

Smarter Access Control is a powerful, easy-to-use solution for businesses ranging from small shops to large commercial properties. The MR50 Single Reader Expansion Module is designed to add one extra reader to an Alarm.com door controller. Each ADC-AC-MR50 adds one reader port, two relay outputs, and two programmable inputs to the system. Connect the expansion module to the controller using a shielded, RS-485 twisted pair.

For larger commercial installations, Single and Two Reader Expansion Modules can be daisy-chained together.

## Expansion Module Features

- Provides all I/O needed for a single door using one reader
- One reader input
- Two relay outputs
- Two programmable inputs
- For use with Alarm.com Door Controllers

## Smarter Access Control Benefits

- Scan-to-add card format and serial detection
- Control doors and manage users from the Alarm.com app
- Integrated with Alarm.com intrusion and video offerings
- User-friendly, flexible scheduling
- Configure hardware using web or app for easy installation
- Plug & play installation—no networking expertise required



Developed with the Authentic Mercury open hardware platform