



AD2096 and AD2032 Series

ALARM ACCESSORIES



The AD2096 Series Alarm Interface Unit converts sixty-four hardwire alarm inputs to AD alarm contact numbers for use by American Dynamics Matrix Switcher/Controller systems. The matrix switcher/controller systems can be programmed to automatically switch video inputs to video outputs, display presets, and activate auxiliary outputs in response to activated alarm inputs. A single Form C relay and LED indicate when any of the sixty-four alarm contacts are activated. DIP switches are used to select alarm input groups (in blocks of sixty-four), to set acceptance of normally-open or normally-closed alarms (in groups of eight), and to set the baud rate of the RS-232 link. Multiple units can be cascaded on a single RS-232 system port. The universal mount enables the unit to be mounted to the front or rear of equipment racks, or flat on a wall or horizontal surface.

FEATURES

AD2096 Series Alarm Interface Unit

- Input of 64 hard-wired alarms
- Multiple units cascadable on a single RS-232 link
- Enables the system to automatically respond to external inputs
- Diagnostic LEDs
- Alarm presence indication
- Provides single relay output
- Universal wall, surface, or rack mount

AD2032 Series Alarm Responder

- Activates relays that correspond to video outputs in alarm
- 32 addressable Form-A relays
- Relays can activate VCRs, annunciators, or other external alarm devices
- Diagnostic LEDs
- Universal wall, surface, or rack mount

The AD2032 Series Alarm Responder provides thirty-two addressable double pole Form A relays arranged in two groups of sixteen. The Alarm Responder provides relay contact closures for corresponding video outputs that are displaying alarm actions. Each relay group can be programmed to respond to two separate groups of sixteen contiguous video outputs. Relays can activate VCRs, annunciators, or other external alarm associated devices. The unit is used with MegaPower™ Series Matrix Switcher/Controller Systems via High Speed Data Line or AD Manchester code line. The universal mount enables the unit to be mounted to the front or rear of equipment racks, or flat on a wall or horizontal surface.

SPECIFICATIONS

Model Numbers

AD2096A	Alarm Interface Unit, 120 VAC, 50/60 Hz
AD2096-1	Alarm Interface Unit, 230 VAC, 50/60 Hz
AD2032	Alarm Responder, 120 VAC, 50/60 Hz
AD2032-1	Alarm Responder, 230 VAC, 50/60 Hz

Operational (Alarm Interface Unit)

Alarm Inputs	64 contact closures (closures to ground or 0 V to 5 V logic levels), N/O or N/C, Programmable in blocks of 8
Address Range	16 blocks of 64 for maximum of 1024
Alarm Outputs	RS-232 RJ-45 direct connection to system CPU
Alarm Indication	LED, and Form-C relay outputs
LEDs	Power and alarm

Operational (Alarm Responder)

Alarm Outputs	32 Form-A relays, 2 groups of 16 outputs
Address Range	Blocks of 16
LEDs	Power and data
Matrix Switcher	AD High Speed Data Line or Manchester code connection

Connectors (Alarm Interface Unit)

RS-232	RJ-45 in/out, cascadable
Alarm Inputs	Eleven 12-pin removable screw terminals

Connectors (Alarm Responder)

AD High Speed Data Line	BNC, in/out
AD Manchester Code	One 12-pin removable screw terminal
Alarm Output	Eight 12-pin removable screw terminals

Electrical

Supply Voltage	
AD2096A, AD2032	120 VAC, 50/60 Hz
AD2096-1, AD2032-1	230 VAC, 50/60 Hz
Power	8 watts (nominal)

Mechanical

Mounting	Universal wall, surface, and rack mount (19-inch EIA)
Dimensions (H x W x D)	89 x 483 x 203 mm (3.5 x 19 x 8 in)
Unit Weight	4.5 kg (10 lbs)
Shipping Weight	4.5 kg (10 lbs)

Environmental

Operating Temperature	0° to 40° C (32° to 104° F)
Storage Temperature	-40° to 70° C (-40° to 155° F)
Humidity	98% RH (non-condensing)

Regulatory

Immunity	EN50130-4
Safety	UL2044

Compatible Matrix Switcher/Controller Systems

MegaPower 1024 Series
 MegaPower 168 Series
 MegaPower 48 Series
 AD2150 Series

Basic System Diagram

