

ALARM SYSTEMS

MULTI16 PLUS

A FULL FUNCTION 16 WAY REMOTE ANNUNCIATOR MODULE EXPANDABLE UP TO 1024 WAYS.

MLT16 CPU UNIT

MEU16 Ext Unit

MPI16 24VDC Interface PSU

MPS-110A 110VAC PSU

MPS-220A 220VAC PSU

The ADDA range of compact annunciators incorporate the latest microprocessor technology to provide a versatile and flexible alarm system suitable for a wide range of applications.

The basic system consists of a Power Supply and one 16 way CPU alarm unit. This may be extended in modules of 16 ways up to a maximum group of 1024 ways, to form a very large synchronised alarm annunciator. Each 16 way CPU unit can be extended to 32 ways with a low cost Extension unit.

DESIGN FEATURES

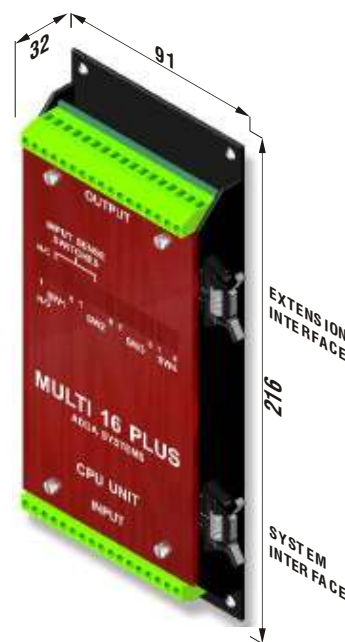
- Field selectable N/O - N/C input sense.
- Choice of 4 alarm sequences via dipswitch.
- Choice of 4 input delay options via dipswitch.
- Ringback option (indicates return to normal position).
- First out Fast Flash option (indicates first group of 32).
- Horn relay output for remote audible device.
- General alarm relay output for inhibit or control purposes.
- Acknowledge pushbutton input (doubles as Lamp Test).
- Reset pushbutton input.
- Flash synchronizing of adjacent units.
- Watchdog timer to monitor microprocessor.
- Microprocessor is galvanically isolated from inputs.
- RS 485 Connection is possible.
- Optional printer controller provides time stamped event record
- Opto-coupled inputs for full isolation of field wiring.

OPTIONS

- SEQUENCE 1 - Auto Reset
- SEQUENCE 2 - Key Reset
- SEQUENCE 3 - Motor Status
- SEQUENCE 4 - Green OK

DELAYED INPUT

- DELAY 1 - No delay(4mS)
- DELAY 2 - 1 Second
- DELAY 3 - 5 Seconds
- DELAY 4 - 10 Seconds



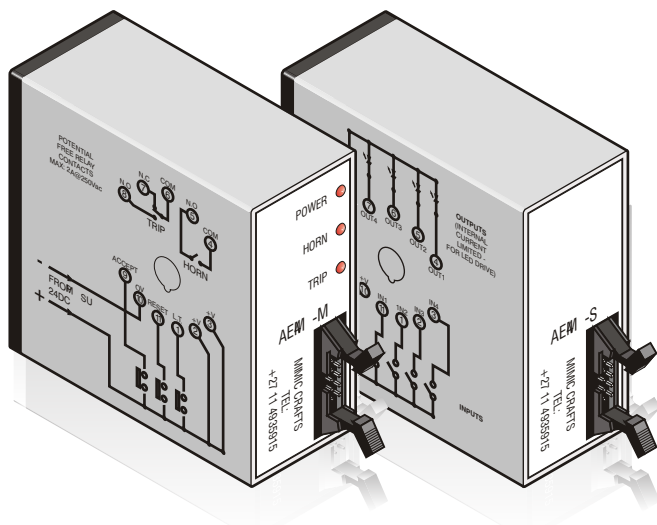
AEM4 Alarm Annunciator

General description:

The Aem4 micro controller based alarm annunciator system was designed for use as an industrial rail mount alarm system. This modular system comprises of 11Pin plug-in modules which wire directly to the field. The system comprises of a master unit which consists of the user pushbutton inputs and supply inputs as well as potential free contacts for the horn and trip functions. The slave units consist of 4way alarm modules with field inputs and display outputs. One master unit can drive up to 32 slave units, thus expanding the alarm unit to a 128 way(maximum) alarm.

Main Functions:

Each input provides for normally open or normally closed alarms via a base mounted dip-switch. Each unit provides for normally on (inverse) led drive e.g. For use as Mains On alarms etc. This is an internal jumper setting. All slave modules have dip-switch settings for the following control options: First on fast flash / Manual or Auto reset / Ringback / and input fast or slow response time. The system is modular expandable - up to 32 slave units. All connections are via standard 11PIN relay bases. The units are interconnected via a standard 10-way ribbon system. The master unit has pushbutton facilities for Lamp Test / Accept / Reset inputs as well as potential free relay contacts for Horn and Trip outputs.



Boated version also available

Specifications:

Power supply:

Supply voltage	24Vdc \pm 10%
Slave current consumption (leds)	80mA (max) / module
Slave current consumption (lamps)	20mA + (4* lamp current)/module
Master unit current consumption	90mA (max)

Alarm inputs:

Input voltage	24Vdc \pm 30%
Input current	7mA @ 24V (max)

Alarm outputs:

Open collector type outputs.	
Max. output current (led mode)	17mA each
Max output current(lamp mode)	50mA each
Total max current	2A (all lamps+leds)

Relay outputs:

Horn relay	SPST
Trip output	SPDT
Contact rating	2A @ 250Vac

ARM 4P - Alarm Annunciator Card

This is a 12 or 24V DC, Relay based, Full Function Alarm Annunciator Card which is ideal for smaller applications where alarm annunciation is required, e.g. on mimics or control panels.

Each **ARM 4P** Card drives 4 LEDs; 20 cards can be driven by one control card **ARM-CON** which contains all common circuits and a flasher. It is available from the factory in Automatic or Manual reset models. It can be used in an existing 24V DC system but it should be noted that the LEDs require positive common connection. The "Test Accept" button accepts alarms and also provides lamp test. A full system requires 12 or 24VDC, an ARM Card for every 4 ways, 1 control card, a buzzer, an accept button (and also a reset button in the case of a Manual Reset model).

The **System** operates on a normally open contact which closes on fault. On receipt of a closing contact the hooter sounds and the appropriate LED flashes. On acceptance, the hooter silences and the LED goes **steady**.

In the '**Auto Reset**' model the LED goes out when the fault clears.

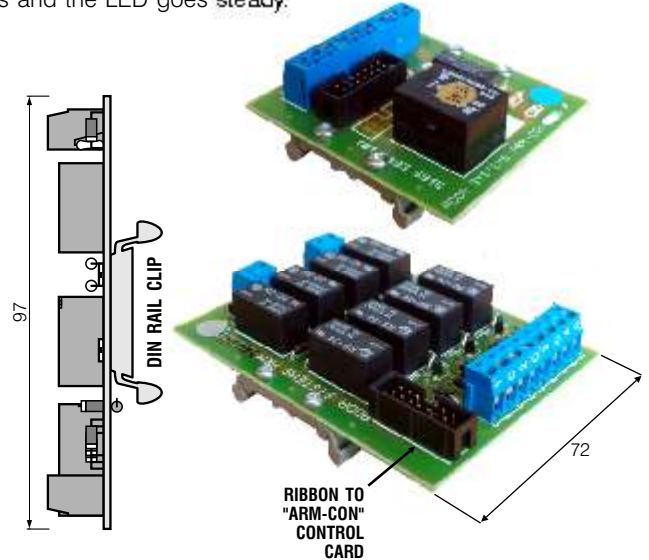
In the '**Manual Reset**' model the LED stays on until the reset button is pressed.

In either case, fleeting alarms are latched until accepted.

Subsequent alarms are recognized, i.e. if there are alarms on the system, a new alarm will initiate a flashing LED and sound the hooter, without affecting existing alarms.

If a panel mount self contained alarm annunciator is required see "ADDA 8", and for a large system see our "MULTI 16 PLUS" which can drive 1008 LEDs and incorporates advanced features.

Also see our "MF 1", a motor flasher card which is ideal for motors that require steady run indication which flashes on trip and initiates a hooter.



SIMPLE ALARM CARD - 8 WAY

SASB-12B-N 12VDC (Neg. comm.)

SASB-24B-N 24VDC (Neg. comm.)

This is an 8 way Alarm Card with Lamp Test and subsequent Buzzer output. It has been designed primarily as a driver for remote active repeat Mimics for fire Panels and other similar alarm systems where there is a Latched output. It provides an economical method of indicating alarms on a mosaic panel or alarm window display. LED's do not flash and fleeting alarms are not latched (when the signal goes, the LED goes out). It is much better than a simple diode steered alarm card in that it also indicates subsequent alarms by restarting the buzzer every time a new alarm arrives, even if existing alarms are still present. It incorporates lamp test, LED ballast resistors and a horn driver. It is available in 12V and 24V DC versions.

APPLICATIONS:

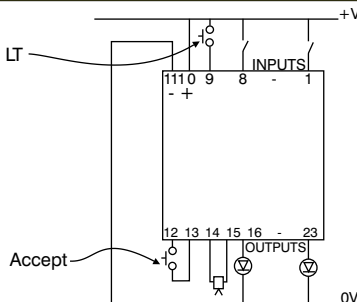
Fire alarm & other alarm annunciator repeat panels.

Process controlled applications where operators need to be made aware of new events but a full alarm annunciator is not required. This unit combined with a standard Lamp test card will provide a low cost solution for Motor run/ Trip indication. IE: Use the Standard Lamp test card for the steady state RUN indications and the SASB Alarm card for the Overload Latched Trip circuits.

See also door monitoring modules, AEM4 modules.



CONNECTION & WIRING DIAGRAM



WIRING MULTIPLE SASB CARDS TO COMMON SWITCHES & BUZZER

