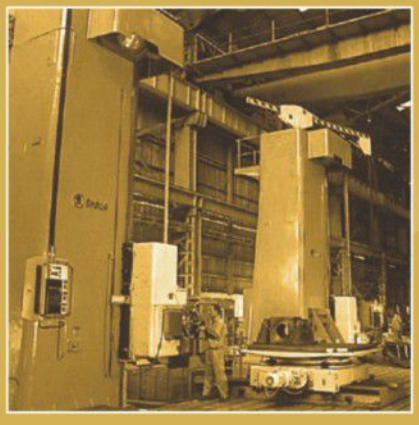
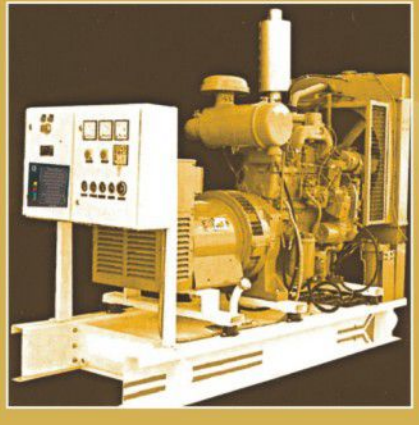
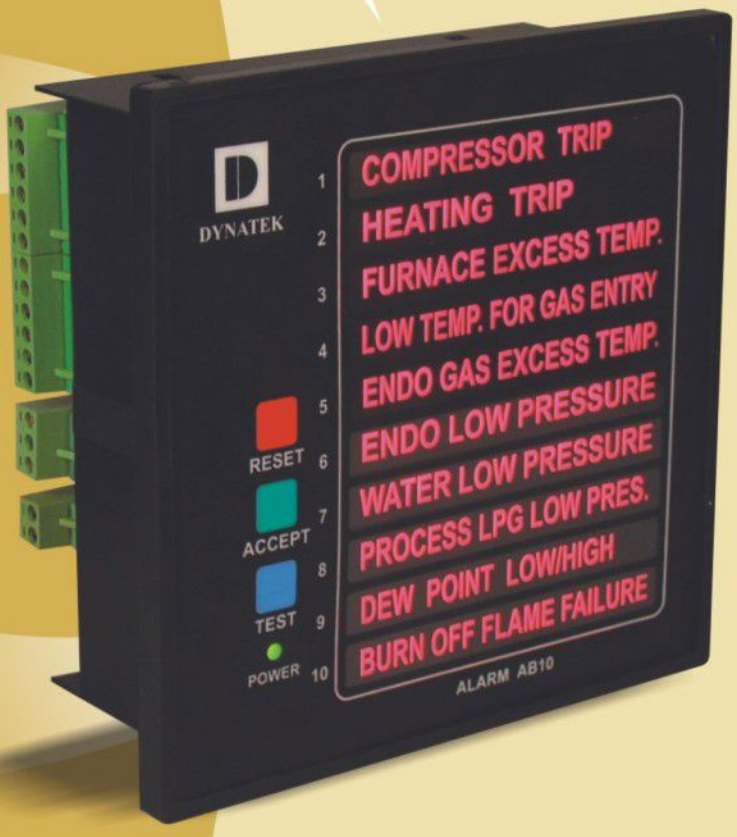
DYNATEK







Alarm
ANNUNCIATOR

QUICK, RELIABLE & PRECISE

INTRODUCTION

Any complex manufacturing process or equipment needs close monitoring, it is effectively done by employing Annunciation system. The system provides Audio and Visual indication of faults. DYNATEK make AB/ABM series is one of the most advanced, highly reliable and compact micro-controller based alarm annunciation system. The system offers annunciation with signaling and Auxiliary (open collector) output. Annunciation inputs are connected to potential free contacts.

PRINCIPLE OF OPERATION

The Annunciator unit continuously monitors all the, connected inputs. If fault occurs in any connected inputs, that fault is detected by the system and according to the status of the fault, flashing of window and hooter relay operation is controlled.

Status of fault is classified in the following manner:

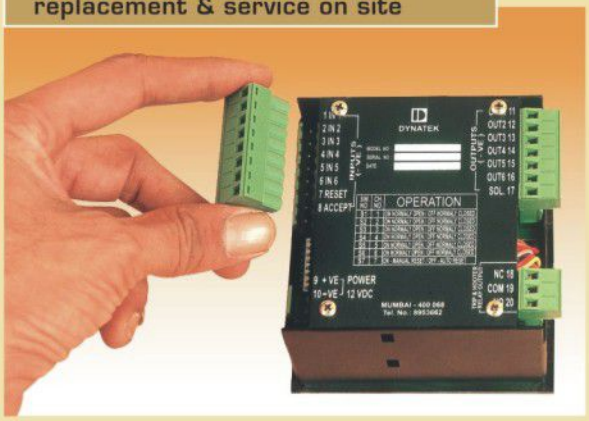
1) Sustained fault but not Accepted.
   In case of sustained but not accepted fault, window of the respective input will Start flashing at fast rate (for first fault 300 flashes/min) and subsequent fault (60 flashes /min) and hooter will be on.

2) Sustained fault accepted.
   In case of sustained & accepted fault, window of the respective input will be glowing steady and hooter will be off.

3) Fault is rectified & Annunciator is reset.
   Reset can be done manually or automatically.
   Manual/Auto Reset facility selected by Dip switch provided on the backside of unit.

➤ Other sequence available on specific demand.

Two part connector ensures easy replacement & service on site



When fault condition occurs in any one of the connected inputs, annunciator indicates the fault by flashing respective window and energies Hooter Relay. The AB/ABM series inputs have site selection facility for "NO" (make to alarm) and "NC" (break to alarm).User can connect a Hooter through relay for Audio alarm. Facility to connect external "Test, Accept & Reset" push buttons is available on the back side terminals. Dual rate flashing is provided for differentiating the first & subsequent faults.

SALIENT FEATURES

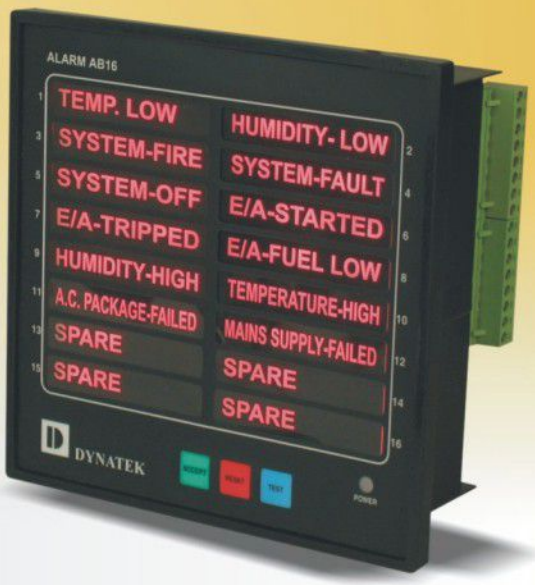
- Fast response time.
- NO / NC type input site selectable.
- Dual rate flashing.
- Bright backlit LED display for long distance visibility.
- 90 % Power saving, compared with bulb.
- Any specific sequence available on demand.
- Accurate operation.
- High noise immunity.
- High reliability.
- Two part connector ensures easy replacement & service on site

COMPUTER CONNECTIVITY

Up to 32 Annunciator units can be surveyed & controlled by software package (SCADA with Modbus I/O Driver).

Faults at each Alarm annunciator are logged by the software in a computer file, which can be used later for analysis.

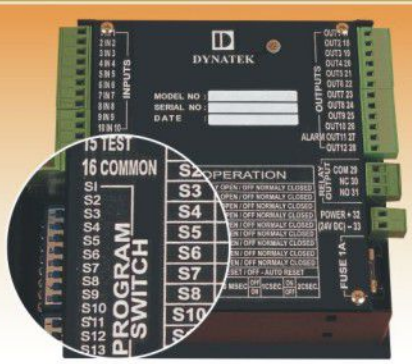
The connection from the PC to the units is via.2 wire RS-485 Bus, using standard RS-485 twisted pair shielded communication cable.



BRIGHT DISPLAY

- We use high intensity LEDs which are 5 time brighter than ordinary bright LEDs
- This ensures clear visibility even under high ambient light condition
- Long Life compare with bulb

Make / Break to Alarm & delay for input fault selectable by DIP switch provided on rear side



TECHNICAL SPECIFICATION

Model	ABM04	ABM06	AB08	AB10	Ab12	Ab14	Ab16
Fault Input Points	4	6	8	10	12	14	16
Power Consumption - VA	1.6	1.8	7.7	8.5	9.1	9.8	10.5
Weight - gm.	330	330	710	710	710	710	710

Window Indication	:	Backlit Bright Red LED display
Fault Inputs	:	Potential free contact "NO" or "NC"
Flash Rates	:	For first fault 300 flashes/min. & subsequent fault 60 flashes/min.
Output Hooter Relay Contact Rating	:	1 Ampere at 230 VAC
Additional Open Collector o/p for each Channel	:	100mA / Sinking mode
External Test, Accept and Reset	:	By "NO" push buttons
Supply	:	12/24 VDC / 110/230VAC ± 50HZ Using additional rectifier stack

DIMENSIONS

Model	Front bezel (mm)	Cut- Out (mm)
ABM 04/ ABM 06	96 x 96	92 x 92
AB 08 / AB 10	148 x 148	138 x 138
AB 12 / AB 16		

OUR PRODUCT RANGE

AMF CONTROLLER

DIESEL ENGINE CONTROLLER

- **Compressor Control Panel**
- **Battery Operated Extra Loud Hooter**
- **Automatic Bell Control System**
- **Master-Slave Digital Clock**

ERTL TESTED

TYPE TEST	DESCRIPTION	REF. DOCUMENTS
High Voltage Test	2KV AC/50Hz For 1 minute	IS 3231,IS 12083/II
Impulse Test	5KV Impluse with 1.2/50 micro Sec. Duty cycle	IS 8686/III/77
Bump Test	1000bumps/axesAcceleration 250 m/s	IS 9000/VII

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