



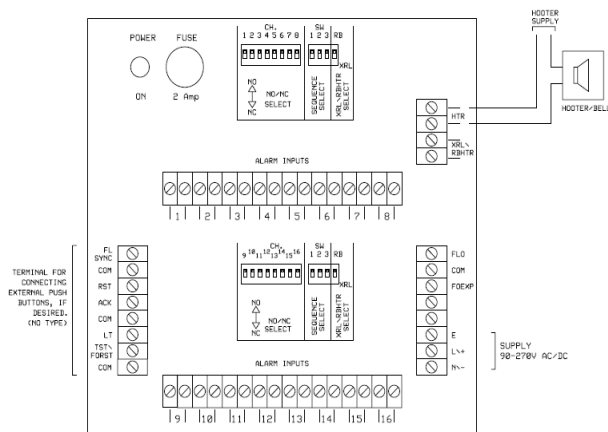
Technical Data

Power Supply	90-270V AC or DC
Power Consumption	1609 - 15 VA 1616 - 30 VA (i) Input free contact NO or NC type. Individually selectable for each channel by DIP switch on the back. (ii) Optionally available Transistor or logic level input from PLC or any other device.
Line Resistance	Field cable upto 1.0 K Ohm
Interrogation voltage	24V D.C.
Response Time	50 m Sec. (Max.)
First - out Resolution	50 m Sec. (Max.)
SWC at Inputs	2.5 KV as per IEEE, 472, 1974
Flashing Frequency	Fast Flash - 270 c/s per Min. Normal/Slow flash - 54 c/s per Min.
Output Contacts	2NO Contacts, One for hooter driving. Other as Tripping contact.
Contact Rating	250V AC, 3A (Resistive)
Ambient Temp.	0 - 55°C
Relative Humidity	Upto 95%
Windows	30*30mm All windows are ABS plastic molded. The window facia is slanted 7.5 Degree off vertical so that display faces into the viewing area. Facia is slide-in type from top of the window so that legend plate can be replaced easily.
Color of window light	Red or Yellow or request.

Dimension

Model	Chanel	Size	Cutout
1609M	9	96x96	92x92
1616M	16	144x144	138x138
1624M	24	244x158	216x150

Terminal Assignments



- Latest Technology, Microcontroller based.
- LED windows with composed legends on.
- Supply AC/DC Plug-in type SMPS module.
- Selectable alarm sequences by DIP switches.
- Input NO/NC selectable by DIP switches.
- First - out group expansion with flasher synchronization.
- Auxiliary tripping contact and horn contact separately.
- Automatic sound cancellation.

Characteristic

With modular design combined with latest Microcontroller technology, 'Digilarm Series 1600' provides more features than any other system available. High noise immunity is provided at very low power, hence ideally suited for all industrial environments. Each channels are mounted on one card module for compactness and cost reduction. For input derived from 'dry' field contacts, the system is supplied either in Integral or Split architecture. The integral unit and the windows cabinet in case of Split system are flush panel mounting type. Audible alarm device and Push Buttons are generally supplied 'loose' for separate mounting.

Field Programmability

System uses a Plug-in, SMPS type, Power supply module having 'Universal' input (any volts between 90-270V AC or DC). System working voltage alteration is therefore easily possible without making any change in the supply unit. Alarm operational sequence can be selected or changed simply by change of DIP switches. This will assign alarm sequence for every channels. Alarm operational sequence can be selected or changed simply by change of DIP switches. Operation from NO or NC input contact can be changed on a per point basis again in simply by change of DIP switches. One DIP switch marked RB/X has been provided to programme a common relay contact marked RBHTR / XRL. It selects either Ring back Hooter contact or Auxiliary/Tripping contact in case of Ring back sequences. In case of other sequence (without Ring back) this switch is inoperative and the output contact in Aux. /Tripping contact only.

Sequence Logic Cards

The Alarm module uses Microcontroller technology to provide unparallel reliability. Glass epoxy PC boards are used. Annunciation are packaged on each card module which plug into connector sockets of the mother board and are interchangeable. Single 24 V DC Power is needed and voltages for working of logic, lamps etc. are generated on the card itself. Conscientiously designed circuit schemes are used to filter out EM & RF noises associated with the field inputs.

LED windows

Visual display window requires only 20mA to operate in comparison to 120mA from conventional lamps and do not require replacements. LED's can be ordered in two different colours. RED/YELLOW to easily differentiate groups of alarm, First out groups or nature of alarms.

First-out Group Expansion

In case of First -out sequences the first fault in a group of faults has to be notified. In some applications the group can be very large.

Automatic Sound Cancellation

Whenever any new fault occurs, the alarm hooter contact 'HTR' closes. It breaks when 'ACK' button is pressed or after 10Min automatically. In case of Ring back sequences whenever any existing fault returns back to normal the Ring back hooter contact RBHTR close. It breaks when RST button is pressed or after 10-mins automatically.

Flasher Synchronisation

Every 16XX unit has its own flasher built inside. In case of multi-unit system the flashing of each unit may be different and therefore visually does not look appealing. A flasher synchronisation facility has therefore been made available. Any unit can be considered as master and the flasher output from master unit may be connected to the Flasher Synch. Inputs of all other units.