Alarm Annunciators

- Standard models available from 2 to 32 windows
- Choice of 3 window sizes and 6 different window colours
- Optically isolated fault inputs with wide fault input voltage range (12 - 240V AC/DC +/-10%)
- Field selection for NO / NC fault input contacts, grouping of alarms, window size configuration
- Space saving due to lower depth of only 100mm
- Integral push buttons for Test, Acknowledge, Mute and Reset operations
- Four SPDT relay outputs (2 for grouping, 1 for external hooter, 1 for ring back sequence)
- 7 Field selectable operation sequences as per ISA standard
- Integral buzzer for audible alarm output of 90 dB
- Communication interface with RS485 Modbus RTU protocol
- Replaceable LEDs, Fast Scan, Manned / Unmanned, Supervisory Relay & Supply fail annunciation available

Working Principle

Whenever there is a change of input contacts from Normally Open to Close or from Normally Close to Open position, annunciator changes from rest condition to alarm condition.

Hence there is an immediate recognition of fault input which will have a corresponding visual and audio alarm as per the particular selected program sequence.

The base unit of alarm annunciator has four programmable keys for Mute, Acknowledge, Reset & Test function. On pressing the Mute key the internal buzzer can be deactivated. Acknowledge key is used to accept the fault condition, Reset key enables to reset the alarm annunciator to its default state and Test key helps to perform the complete test of the system.

Technical Specifications

Parameters	Fast Scan	Normal Scan
Supply Voltage (⏚)	90 - 270 V AC/DC or 18 - 60 V DC	
Supply Frequency (AC)	50/60 Hz	
LED Indication (Green)	ON - Healthy / Manned Mode	ON - Healthy
	Blinking - Unmanned Mode [Slow Blinking Rate - 300msec ON, 3sec OFF] Blinking - Error [Fast Blinking Rate - 500msec Cyclic ON/OFF] Error: 1) User selected wrong windows configuration 2) Slave Communication error	Blinking - Error [Fast Blinking Rate - 500msec Cyclic ON/OFF] Error: 1) User selected wrong windows configuration 2) Number of windows are more than number of fault inputs.
No. of Windows	2 to 32 windows in different configurations	
Window Size	Small: 34x31mm, Medium: 68x31mm, Large: 68x63mm	
Window Colour	Red, Yellow, Blue, Green, Amber and White	
Illumination	Low power super bright white LEDs (replacable LEDs available)	Low power super bright white LEDs
Fault Input Signal	Potential free (NO/NC field selectable)	
Fault Input Voltage	Internal: 12V DC (Potential free)	Internal: 12V DC / External: 12V-270V AC/DC
Scan Time	10 msec	100 msec
Flash Rate	1) Fast flash - 0.5 Sec ON / 0.5 Sec OFF (60 flashes/Min) 2) Slow flash - 0.5 Sec ON / 1.5 Sec OFF (30 flashes/Min)	
Terminal	Pluggable terminal blocks for conductor up to 2.5mm²	
Output Relay Contact	4 C/O Relays (2 for grouping + 1 for external hooter + 1 for Ring back sequence)	
Relay Contact Rating	NO - 5A / NC - 3A @250V AC & NO - 5A / NC - 3A @ 30V DC (resistive), (Relay Actuation time 10 to 130ms after signal detection)	NO - 5A / NC - 3A @ 250V AC & NO - 5A / NC - 3A @ 30V DC (resistive), (Relay Actuation time 130ms after signal detection)
Audible Alarm Output	90 dB at 1 metre distance (In-built Buzzer)	
Facia Type	Individual window lens, replaceable from front.	
Alarm Sequences	As per ISA standard (Field configurable) **1)** Manual Reset (M-1) **2)** Auto Reset (A-1) **3)** Ring Back (R-1-12) **4)** Auto Reset with No-lock(A-1-4) **5)** Manual reset first out with no subsequent alarm flashing and silence push button (F2M-1) **6)** Auto reset first out with no subsequent alarm flashing and silence push button (F2A-1) **7)** Manual Reset (M-2) [Applicable for Fast Scan Module]	
Push Button Controls	Integral Push buttons for Test, Mute, Acknowledge and Reset functions. Provision of output connections for remote access of push buttons.	
Communication Port	Computer interface with RS 485 Modbus RTU protocol.	
Operating Temperature	-10°C to +55°C	
Storage Temperature	-15°C to +60°C	
Humidity	95% R.H.	
Mounting Type	Panel Mounting	
Certification	CE RoHS Compliant	
Degree of Protection	Front panel IP40, Rear panel IP20	

EMI / EMC Compliance

Harmonic Current Emissions	IEC 61000-3-2 Class A
ESD	IEC 61000-4-2 Level II Class A
Radiated Susceptibility	IEC 61000-4-3 Level III Class A
Electrical Fast Transient	IEC 61000-4-4 Level III (Power Supply and Input Signal with external supply), IEC 61000-4-4 Level III (Capacitive coupled on Input Signal and Remote keys with internal 12V supply), IEC 61000-4-4 Level II (Capacitive coupled on Communication)
Surge	IEC 61000-4-5 Level IV (Power supply and Input Signal with external supply)
Conducted Susceptibility	IEC 61000-4-6 Level III Class A
Voltage Dips and Interruptions(AC)	IEC61000-4-11 All VII Level Pass
Conducted Emission	CISPR 11 / CISPR 14-1 Class A
Radiated Emission	CISPR 11 / CISPR 14-1 Class A

Safety Compliance

Test Voltage Between I/P and O/P	IEC 60255-5, 2.5kV, 50Hz, 1Min
Impulse Voltage Between I/P And O/P	IEC 60255-5, 5kV, 1.2/50us, 0.5J
Single Fault Test	IEC 61010-1
Insulation Resistance	UL 508 > 50 kΩ
Leakage Current	UL 508 < 3.5 mA
Pollution Degree	II

Environmental Compliance

Cold Heat	IEC 60068-2-1
Dry Heat	IEC 60068-2-2
Vibration	IEC 60068-2-6, 10 to 55Hz

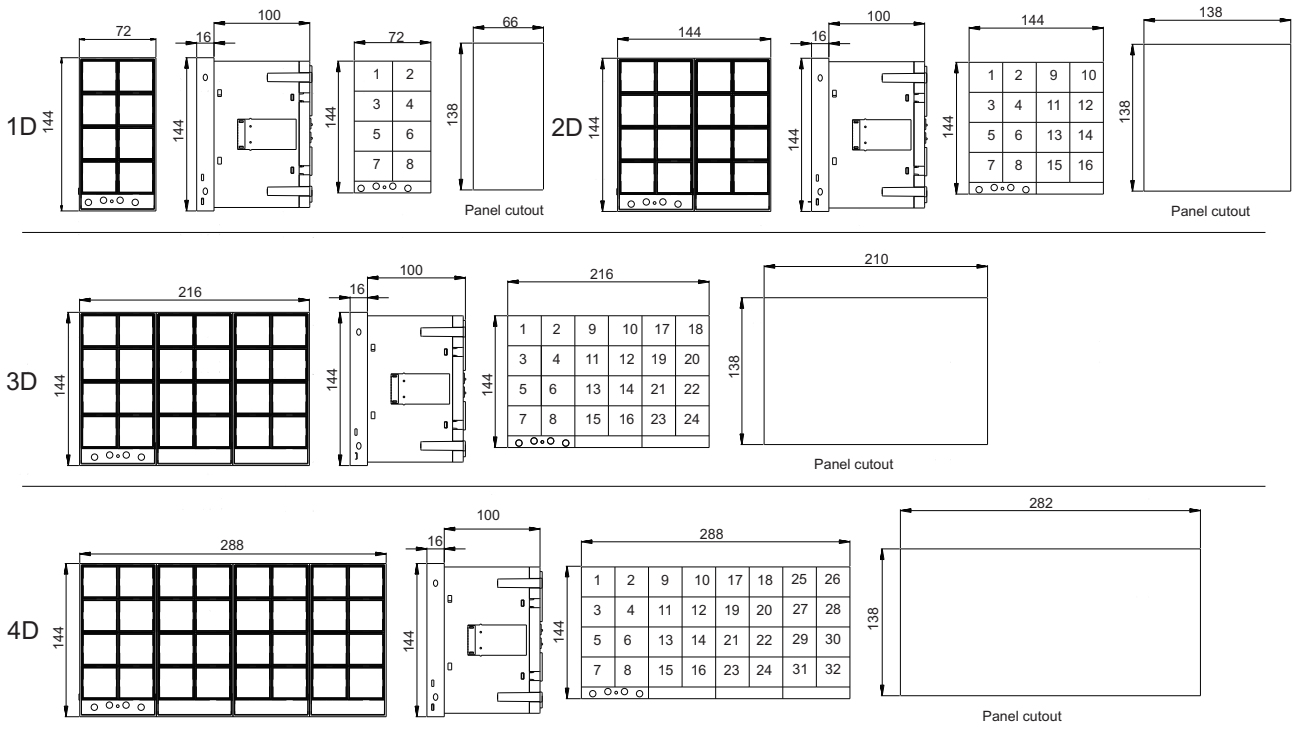
Ordering Information

Cat. No.	Supply Voltage	Product Size	No. of Windows	Window Size	Keys
AU1D8S	90 - 270 V AC/DC	1D	**8**	Small	Small
AU1D6SP	90 - 270 V AC/DC		**6**		Big
AU2D16S	90 - 270 V AC/DC	2D	**16**	Small	Small
AU2D14SP	90 - 270 V AC/DC		**14**		Big
AU3D24S	90 - 270 V AC/DC	3D	**24**	Small	Small
AU3D22SP	90 - 270 V AC/DC		**22**		Big
AU4D32S	90 - 270 V AC/DC	4D	**32**	Small	Small
AU4D30SP	90 - 270 V AC/DC		**30**		Big
AD1D8S	18 - 60 V DC	1D	**8**	Small	Small
AD1D6SP	18 - 60 V DC		**6**		Big
AD2D16S	18 - 60 V DC	2D	**16**	Small	Small
AD2D14SP	18 - 60 V DC		**14**		Big
AD3D24S	18 - 60 V DC	3D	**24**	Small	Small
AD3D22SP	18 - 60 V DC		**22**		Big
AD4D32S	18 - 60 V DC	4D	**32**	Small	Small
AD4D30SP	18 - 60 V DC		**30**		Big

Note 1 : For other customised products, use live product configurator available on our website to generate part number & enquiry request form: www.gicindia.com

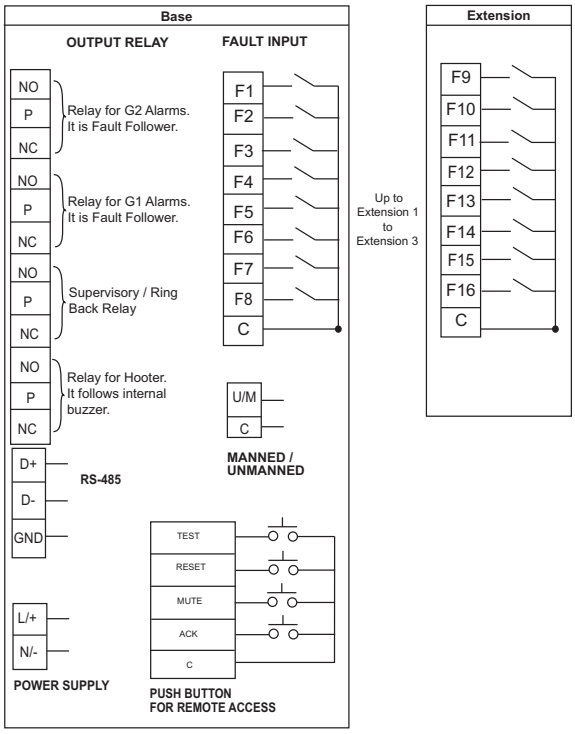
Note 2 : Legend templates are available on our website : www.gicindia.com

MOUNTING DIMENSIONS (mm)

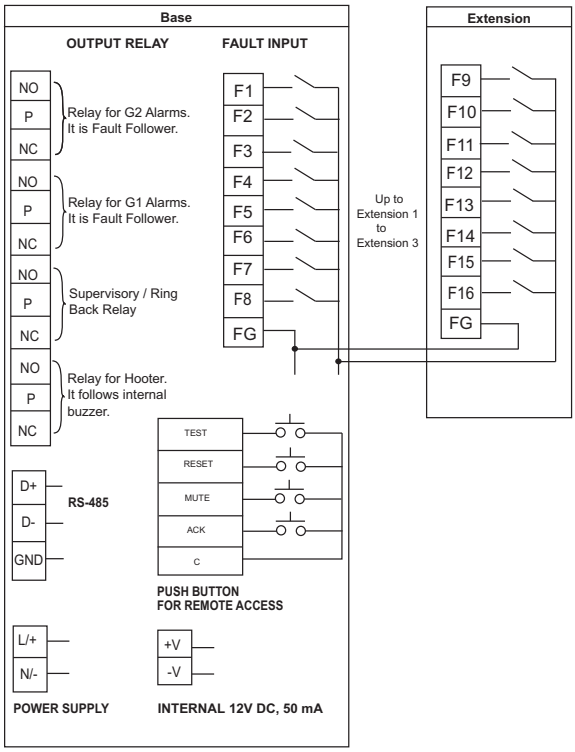


CONNECTION DIAGRAM

Fast Scan



Normal Scan



Terminal Connection: For Output Relay, Fault Input, Remote Keys,
Power Supply Connection: AWG 28 to 12, Ph1- 3.5mm, Torque 0.5Nm(4.5lb.in)
For Internal 12V supply, RS485 Connection: AWG 28 to 16, Flat- 2.5mm, Torque 0.2Nm(1.77lb.in)