

PROTON POWER CONTROL PVT.LTD.

PRODUCT CATALOG

ALARM ANNUCIATOR



Providing excllence with Latest tecnology | Customized solution | Timely delivery

Optional features

Prompt detection and rectification of any system failure or mail-operation is of vital importance for any power or process plant. PROTON Alarm Annuciators continuously monitor the various process parameters and equipment status in power- displayed at centralised control room or on control panel. PROTON Annuciators stand for Instant alarming of any protect the valuable equipments. PROTON Annuciators ensure a coprehensive service reliabillity and thus provide a comprehensive service to the industry for monitoring, alarm and control of process plant parameters. These highly advanced and compact systems use the latest single chip micro-computer technology for its design and offer multipoint annuciation with operating sequences as per prevailling standarda and with many optional features as indicated aside.

Muiticoloured inscription plate for easy differentiaton of trip and non-Trip fault annunciations Site selectable facillity for grouping of Trip and Non-Trip faults or Trip

and Alarm

faults for visual and audio discrimination thro two separate output relay contacts.

Extra relay output contact per channel for repeat annunciations. Actuated thro' LIVE fault input contacts (AC or DC voltage directly can be given.)

Provision for Dual (AC & Dc) power supply with automatic changeover with A.C. fail or D.C.fail annuciation

Computer interfaces with 485 modbus ASCII protocol.

Output connections for remote Test, Accept and Reset operations.

Choice for in-bult Hooter with 4 or 6 window model.

Partly POTENTIAL FREE and partly LIVE fault input contacts can be given in one single unit.

Choice of different window sizes 40x80 or 25x30 or 15x40mm. LCD Annuciation module attachment with Real Time Clok.

Salient Features

Based on latest single chip micro-computer technology Sleek, compact design for reliable and accurate operation. Fast response time.

Models available from 4 to 64 windows.

Field selectable operational sequences.

Incorporates a group of super bright LED's instead of twin filament lamps for ultimated life at very less power consumption.

Actuated thro' potential free fault input contacts.

Fault input contacts NO/NC site selectable by means of DIP switches.

Opto-isolated all fault input, immune to noise disturbances.

Provision for external audible (Bell or Hooter)thro potential free relay output contact.

All models are with built-in feather touch push buttons for Test, accept and Reset operations.

Test facility checks flashing, accept and reset operations.

Specially designed power supply for high noise immunity, wide input variations and having built-in transient protection.

The extensive protection so provided safequards all I.C.'s and components from faillure. thereby offering complete reliabillity.

All cards interconnected with plub-in polaride connectos for esy servicing.

Rugged M.S.enconomic, No Frills alarm annunciator system that is both easy to install, commission and maintain.

Type tested for noise, impulse and functional test as per various satandards.

Technical Specifications

: 1) 90-270 AC/ DC SMPS Supply voltage

2) 24V/48V DC +/-20%

: 4 to 64 windows available in different No.of windows

configuration (Refer chart)

No.of LED's per window: Super bright 9 LED's in tree rows

power consumption : 0.8VA per window

scan time : 60 ms

Response time : 10 ms

Flash rate : 50 Flashes/ min - Fast Flashing

of relay, micro swith or aux .contact of contactor (Potential contact on request)

Interrogation voltage : 5 V DC and 12 V DC

Fault Input connection : NO or NC site selectable potential free contacts

of relay, micro switch or aux. contact of contactor (Potential contacts on request)

Output connections : For remote Test . Accept & Reset Operations on

specific demand

Output relay contact : Potential free contact for external Hooter, Bell

or Rling Back Alarm

: 5 Amps at 230 V AC or 1 Amp, at 415 V AC Output contact rating

Nose immunity : 2.5 KV as per IS 8686 Refer type test chart.

Impulse test : 5 KV as per IS 8686 : As per IS 9000 Environmental test

Standard operational

: 1. Auto Reset, 2. Manual Reset sequences 3. First Up 4. Ring Back Alarm

Max. ambient temp. : 0.60 C Humidity : 95% R.H.

: Photofilm (positive or negative) Legends

Push button controls : For Test , Accept & Reset functions

: 40X40 mm.

Overall size & cutout

Window dimension

dimensions

: Refer chart.



Standard sizes of 'PROTON' Annunciators

No. of Window Depth		Window Placement	Cutout	Bezel	Type tests as per various standards conducted on 'PROTON' Annunciatorunit				
		Placement Row X Column	Dimension W X H	Dimension W X H	ElectricalTests				
	4	2X2	92X92	96X96	Test Description Reference				
160 160	4	2x2	125x92	135x102	High voltage surge 2 KV AC (RMS) IEC - 255-4, Susceptibility test for 1 min. or IEEE 472- 1974				
100	_	4.5	205.65	205 70	2.5 KV for 1 sec. IS 3231				
160	6	1x6	285x65	305x78	Impulse voltage 5 KV Impulse at IS 8686-1977 withstand test all i/p and o/p points IEEE - 472				
160	6	2x3	172x92	180x102	B5-923				
160	8	1x8	365x65	388x78	High voltage high Longitudinal (2.5 KV) IEC-61010 frequency disturbance Transverse (1 KV IEC-61000-4- 12				
	8	2x4	212x92	220x102	(Noise) test				
160					Mains supply variation +10% - 15% Mfr's test				
	9	3x3	172x138	190x155					
160	10	2x5	247x92	265x105	Environmental Tests Dry Heat test 60 Hrs. at 70°c IS 9000/II/77				
160	12	2x6	285x92	313x112	Burn in test in 90 Hrs. at 70°c IS 9000/77 energised condition				
160	12	3x4	212x138	220x155	Damp Heat test 72 Hrs. at 55°c IS 9000/IV/79 at 95% R.H.				
160		3.71	LILXISO	2200133	Cold test -25oc for 48 Hrs. IS 9000				
160	16	2x8	360x92	395x114	Bump test 1000 Bumps/axes I S				
160	16	4x4	225x175	244x194	@ 3 bumps/sec.				
160	18	3x6	278x138	300x155					
160	20	4x5	258x190	280x210	Application Areas Thermal power stations and sub-stations of				
	24	3x8	375x145	390x160					

Operating Sequences Chart

Fault Condition	Manual Action	Auto Reset		Manual Reset		First up		Ring Back Alarm		
		Audio	Visual	Audio	Visual	Audio	Visual	Audio	Visual	Ring BacK Alarm
Normal		Off	Off	Off	Off	Off	Off	Off	Off	Off
AB-Normal		On	Flash	On	Flash	On	Flash (I) Steady (S)	On	Fast Flash	Off
Normal Before Accept		On	Flash	On	Flash	On	Flash (I) Steady (S)	On	Fast Flash	Off
Normal	Accept	Off	Off	Off	Steady	Off	Steady (I) Steady (S)	Off	Steady	Off
AB-Normal	Accept	Off	Steady	Off	Steady	Off	Steady (I) Steady (S)	Off	Steady	Off
Normal Before Reset		Off	Off	Off	Steady	Off	Steady (I) Steady (S)	Off	Slow Flash	Off
Normal	Reset	Off	Off	Off	Off	Off	Off	Off	Off	Off
AB-Normal	Reset	Off	Steady	Off	Steady	Off	Steady	Off	Steady	Off
Normal	Test	On	Flash	On	Flash	On	Flash	On	Slow Flash	Off





Annunciation with Computer Interfacing





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