

M2-Series Annunciators – Advanced Models

M2-12R/M2-16R/M2-20R/ M2-24R

Features

- Super bright, White color SMD LED for fault indications.
- Available in 12, 16, 20 and 24 windows respectively.
- Test / Mute / Acknowledge / Reset buttons in front and terminals at rear are available.
- Program enabling / disabling facility available at rear.
- RS-485 modbus communication available with field selectable device id .
- User-selectable sequence of operations-Manual reset, Auto reset, Manual reset + ring back or First in First Out (FIFO).

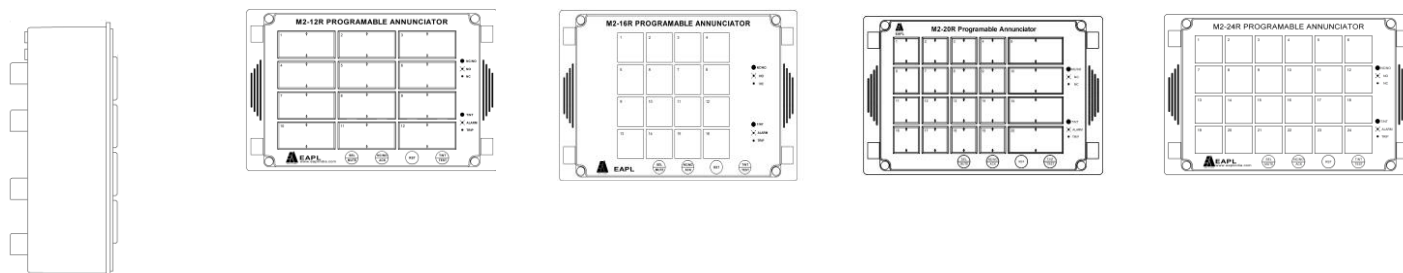


Ordering Information

Models	No of Windows	Source Voltage	Stand By Voltage	Output
M2-12R	12	85-270V AC/DC or 24-48V DC	12V DC or 85-270V AC/DC	2 relays 1 C/O (NC-C-NO) for trip/Alarm, 2 relays 1C/O (C-NO) for Hooter, AC Fail
M2-16R	16			
M2-20R	20			
M2-24R	24			

Note: All above models are also available without communication and AC Fail /DC Fail indications.

Side & Front View M2-12R M2-16R M2-20R M2-24R



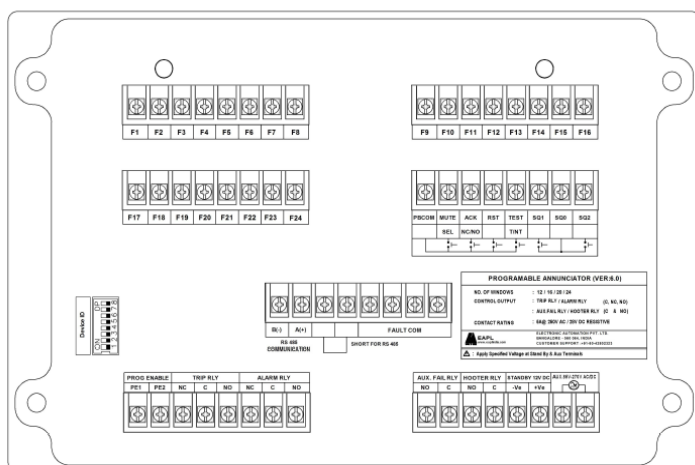
Over-all and cut-out Dimensions

Models	Dimension Details in mm			Cut-out Dimension in mm	
	W	H	D	W	H
M2-12R/16R/20R/24R	291	187	79	285	181

Specifications

Parameters	Models	M2-12R	M2-16R	M2-20R	M2-24R
Function	Programmable Fault Annunciator				
Supply Voltage	85-270V AC/DC or 24-48V DC \pm 10%				
Power Consumption	For 85-270V AC/DC : AC: 30VA Approx. DC:20W Approx. For 24-48VDC : DC:20W Approx.				
Rated Frequency	50 / 60Hz \pm 5% AC ONLY				
No of Windows	12	16	20	24	
Stand By Supply	12V DC \pm 10%				
Fault input contacts	Selectable NO/ NC type for every channel(No Volt)				
Window colour	Red				
Window Size	28.0mmX63.0mm	28.0mm x 28.0mm	28.0 mm x 63.0 mm 28.0mm x 28.0mm	28.0mm X 28.0mm	
Flash Rate	Fast:100/Minute Slow:50/Minute				
Control Output	4 Trip Rly (C,NC,NO) Alarm Rly (C,NC,NO) Aux. fail Rly (C & NO) Hooter Rly (C & NO)				
External Push Buttons	Provided				
Contact Rating	1 C/ O Rated for 5A @ 250 VAC / 28V DC resistive load				
Test Facility	Provided (operational test)				
Fault Sensitivity	100msec \pm 10mSec				
Sequence of Operation	a) Manual reset b) Auto reset c)Manual Reset + Repeat Alarm d)First in First Out				
Insulation resistance	>100M ohms @500V DC				
Service life (under no load)	10 ⁶ operations minimum				
Electrical life(under full load)	10 ⁵ operations minimum				
Recovery Time	2Sec minimum				
Humidity	85% RH @ 40°C				
Ambient Temperature	Operating : -10 ⁰ C to +55 ⁰ C Storage : -25 ⁰ C to +80 ⁰ C				
Dielectric Strength	a) 2.5KV AC, 50Hz for 1 minute. (Between current carrying & non-current carrying parts) b) 1.5KV AC, 50Hz for 1 minute. (Between contacts & control circuit) c) 750V AC, 50Hz for 1 minute. (Between non-continuous relay contacts)				
Electrical Connection	Screw type terminals with self lifting clamps				
Over-all Dimension(WXHXD)	291 x 187 x 79 mm				
Cut-out Dimension(WXH)	285 x 181 mm				

Connection Details



Terminal Details

Aux Supply: 85-270V AC/DC or 24-48V DC \pm 10%

TEST, MUTE, ACK, RESET: External Push Buttons for remote operations connected WRT PB COM

Alarm & Trip relay: Alarm and Trip output indication

Hooter RLY C & NO: Rly contacts for Hooter during power fail

Aux. Fail Rly C & NO: Rly contacts for indicating power failure

Individual fault I/P terminals for respective window (Potential free). Connect WRT Fault COM (FC):

F1-----F12: for 12 Windows **F1-----F16:** for 16 Windows

F1-----F20: for 20 Windows **F1-----F24:** for 24 Windows

FC: Common fault (FC) I/P terminals for F1-F12, F1-F16, F1-F20, F1-F24

SQ1, SQ2: Selection of required sequence of Operations. Connect WRT SQ0.

A (+), B (-): RS485 Communication terminals.

PE1 & PE2: Program Enable .