Aaral RP

FIRE ALARM REPEATER PANEL

General

The active repeater panel is designed with an ARM 32-bit microcontroller with high resolution (480 x 272 pixels) 4.3 inch graphical LCD display with a symbolic representation of system status and controls keys for easy access. The repeater requires an external power supply of +24VDC (nominal) to operate. Power may be taken from the auxillary supply of the control panel or from any other suitable dc power supply. The repeater includes an integral self test sequence guiding the operator to test the functionality of the LED. Individual Keys are provided for Reset, ACK, Silence & Evacuate. This repeater panel shall be communicated with control panel in two different methods, one is through in-built RS485 which is a class B network and another one is through Network Interface card (NIC) which is a Class A network.

Features

- Complies UL 864 10th Edition.
- Active repeater.
- 10,000 events log with RTC per each node with distributed different search option.
- Programmable auto silence facility.
- Programmable silence inhibits.
- Programmable reminders for alarm, supervisory and fault.
- One Form C fault relay.
- All field wiring is power limited and supervised.
- USB 2.0 interface for PC connectivity.
- Field upgradeable.
- Network Interface Card (NIC) Optional.

Specification

Electrical Specification	
Operating Voltage	24VDC
Operating Condition	Operating temperature 0 – 49° C / 32 – 120° F Relative humidity 93 ± 2% RH (non-condensing)
Storage Temperature	0 – 60°C
Quiescent Current	160mA
Fault Relay	Type Form C Quantity 1 No's Relay contact rating 2A @ 30 VDC Power factor 1.0
Networking	RS 485 / NIC
Wire Size	2.5 Sq mm (#12AWG) Max
Dimension	330W x 260H x 99D in mm
IP rating	IP 50

Dimensions
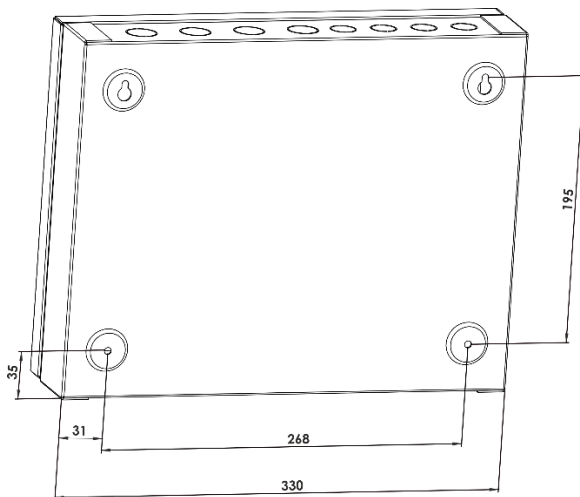
Wiring Configuration
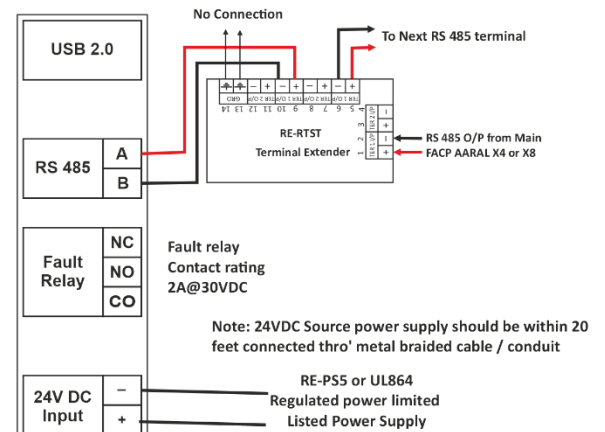
NIC Terminal:
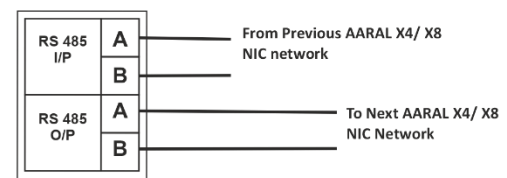
Network

- RS 485 Network

- NIC Network
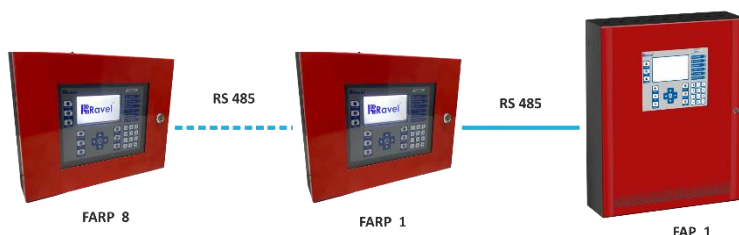
Note: NIC required for this Network
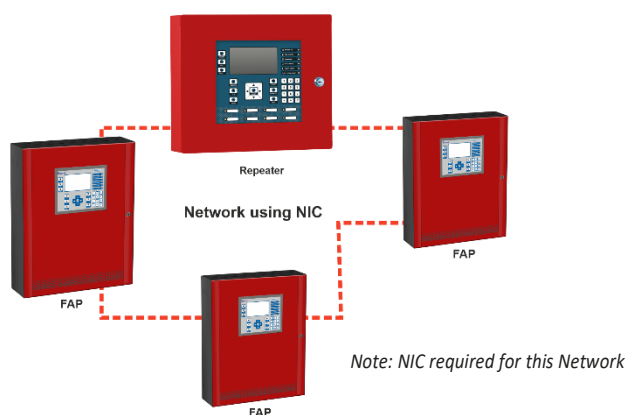
Compatible Panel

Models	Description
Aaral X4	Analogue Addressable Fire Alarm Control Panel expandable upto 4 loops
Aaral X8	Analogue Addressable Fire Alarm Control Panel expandable upto 8 loops

Ordering Information

Model	Description
Aaral RP	FARP, complete system with user interface,main CPU, 24VDC supply and NIC card ordered separately for network.
Accessories / Replacement	
AR-RPMB	Repeater Mother Board
AR-XDSB	Display Board
AR-XNIC	Network Interface Card
AR-RTST	Terminal Extender for repeater RS485

*Ravel reserve the right to change the specification without prior notice.