

Addressable Fire Alarm Control Panel

General

The **RCL-3100** addressable fire alarm control panel contains 1 to 8 SLC loops with each loop supporting 300 devices of any combination (sensors or modules). Communication between devices is transferred through standard cable, no shielded or twisted pair required.

The panel can be easily configured conventional detection system, such as heat, photo and ion sensors, call point, alarm bell, etc. by using R-CM monitoring/control module. In addition, a RS-485 bus provides communication to the panel network, while the RS-232 interface allows the convenience of programming via a PC.

Features

- DCP protocol for fast and robust communication
- One, expandable to eight, Signaling Line Circuit (SLC) loop
- Support Class B (style 4) and Class A (style 6 or 7) SLC loop
- 8 amp power supply with 8 on board Class B NAC circuits
- Use standard cable, no shielded or twisted pair required on SLC loop
- Up to 300 sensors and modules per loop
- Communication distance between devices can achieve 1.2km by using AWG 14 wire
- Large 15-lines x 40-character LCD
- Self-inspection function to assist same one address issue within several devices
- Individual alarm display of fire and gas to enhance the efficiency of events judgment & action
- Fire drill test and walk test function
- A RS-485 bus for panel network
- 2 built-in RS-232 interfaces for programming via a PC and serial printer interface
- History log can achieve 3000 events



Specifications

Model	RCL-3100
Capacity	1 ~8 loops, up to 300 sensors and modules per loop
Input power	AC220V · 50 Hz
Battery power	DC24V 4Ah at least
Resistance of cable	Resistance of signaling wire <20Ω; insulation resistance >2MΩ@500V
Alarm delay time	0 ~ 40 seconds
Operating temp/ humidity	0°C ~ 50°C · relative humidity <95% (non-condensing)
Material of case	Steel, 1.2mm thickness
Dimensions	1~4 loops: 500x600x150 ; 5~8 loops: 500x1000x150 (WxHxD, mm)
Optional	Thermal printer, Custom graphics, Voice evacuation, Remote annunciator