

### DESCRIPTION

The IQ308 control panels are touch-sensitive, addressable fire detection panels, with up to 8 circuits for the IQ308, each supporting up to 324 addressable points, and are designed to meet the requirements of the EN 54-2 & EN 54-4 standards for simple installation, ease of operation and easy maintenance.

### FEATURES

- EN54-2 & EN54-4 certified by Applus.
- 7.0 inch color touch-sensitive screen LCD, resolution of 800×480.
- 324 addresses for 1 loop, max 4 loops.
- A maximum of 5000 fire protection zones are supported.
- More user-friendly Night Mode Time Range Settings.
- Networkable: CAN bus for interconnection of up to 60 FACPs and Ethernet for up to 254 FACPs.
- Fire alarm, fault, C&E and operation, each category can store up to 10,000 records.
- Enclosure: Steel IP30

### POWER SUPPLY

|                                     |                                                                                  |
|-------------------------------------|----------------------------------------------------------------------------------|
| Mains Supply                        | 110/230V AC (-15%, +10%), 50Hz/ 60Hz                                             |
| Mains Fuse                          | T4A250V                                                                          |
| Operating Voltage                   | 28V ± 0.5VDC                                                                     |
| Recommended mains cable             | Standard/black mains cable, cable size 1mm <sup>2</sup>                          |
| Power Rating                        | I <sub>max.a</sub> =3.1A; I <sub>max.b</sub> =5.55A; I <sub>min</sub> =0.3A      |
| Max. battery supply current         | 8A(when the Mains is disconnected)                                               |
| Max. charging current               | 1A                                                                               |
| Physical dimensions                 | 440×400×180mm(2×12V/12Ah Battery)<br>440 x 590 X 230mm(for 24AH or 38AH battery) |
| Max. internal resistance of battery | 1Ω                                                                               |
| Approx. weight (without battery)    | (Standard) : 11 kg<br>(Deep): 13kg                                               |
| Battery fuse                        | 15A                                                                              |
| Quiescent current (full loaded)     | <0.3A                                                                            |

### INPUTS

|                     |                     |                                       |
|---------------------|---------------------|---------------------------------------|
| Class change (+, -) | Input voltage       | Passive                               |
|                     | Max. output current | ≤500Ω                                 |
|                     | Cable diameter      | 1mm <sup>2</sup> ~ 2.5mm <sup>2</sup> |



### OUTPUTS

|                         |                      |                                       |
|-------------------------|----------------------|---------------------------------------|
| S.C. Out (+, -)         | Output voltage       | 20~28VDC                              |
|                         | Max. output current  | 1A                                    |
|                         | End of line resistor | 10KΩ                                  |
|                         | Cable diameter       | 1mm <sup>2</sup> ~ 2.5mm <sup>2</sup> |
| F.A. Out (+, -)         | Output voltage       | 20~28VDC                              |
|                         | Max. output current  | 50mA                                  |
|                         | End of line resistor | 10KΩ                                  |
|                         | Cable diameter       | ≤1500m                                |
|                         | Output voltage       | 1mm <sup>2</sup> ~ 2.5mm <sup>2</sup> |
| Fault Out (NC, COM, NO) | Contact voltage      | 2A@24VDC                              |
|                         | Cable diameter       | 1mm <sup>2</sup> ~ 2.5mm <sup>2</sup> |
| AUX 24V (+, -)          | Output voltage       | 20~28VDC                              |
|                         | Max. output current  | 2A                                    |
|                         | Cable diameter       | 1mm <sup>2</sup> ~ 2.5mm <sup>2</sup> |

### INTELLIGENT LOOP

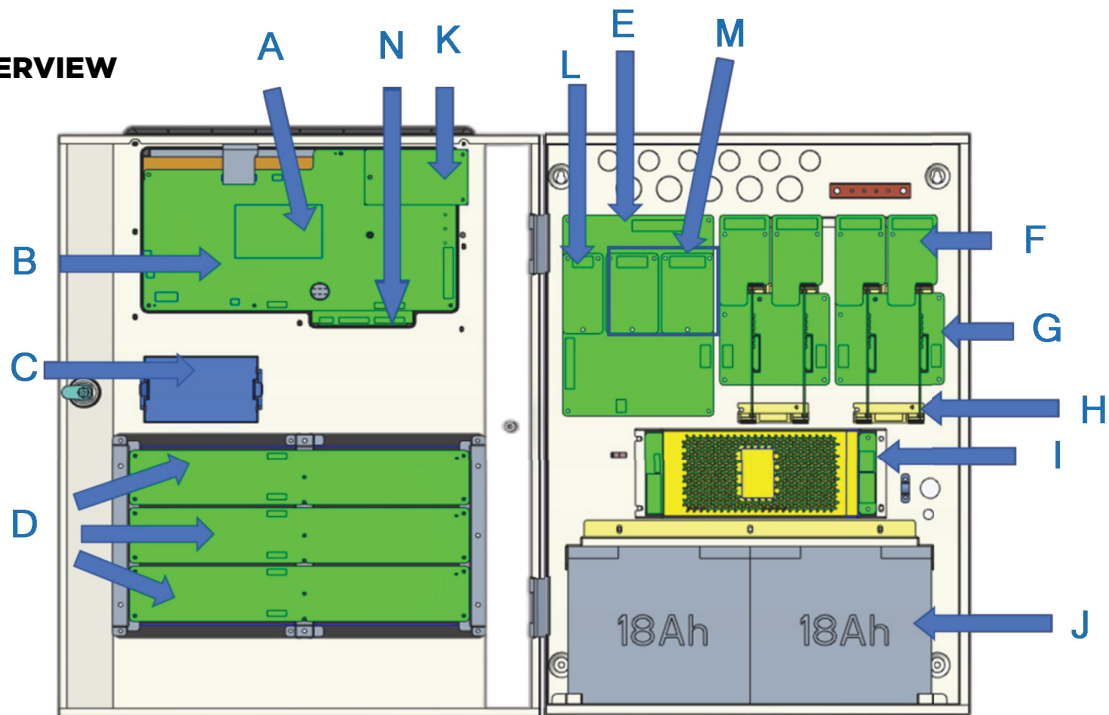
|                                   |                        |                                             |
|-----------------------------------|------------------------|---------------------------------------------|
| Loop Out (+, -)<br>Loop In (+, -) | Output voltage         | 18.5~28VDC, pulse                           |
|                                   | Max. output current    | 0.5A                                        |
|                                   | Addressable devices    | 324                                         |
|                                   | Loop type              | Class A and B                               |
|                                   | Recommended Cable type | Unscreened twisted-pair, 1.5mm <sup>2</sup> |
|                                   | Transmission distance  | ≤2000m (Class A)                            |

### NETWORK COMMUNICATION

|       |                       |                                       |
|-------|-----------------------|---------------------------------------|
| RS485 | Transmission rate     | 9600 bps                              |
|       | Transmission distance | ≤1200m                                |
|       | Cable diameter        | 1mm <sup>2</sup> ~ 2.5mm <sup>2</sup> |
| CAN   | Max. numbers of panel | 32                                    |
|       | Transmission rate     | Optional: 10K, 20K, 50K and 100Kbps   |
|       | Transmission distance | ≤1000m                                |
|       | Cable diameter        | 1mm <sup>2</sup> ~ 2.5mm <sup>2</sup> |



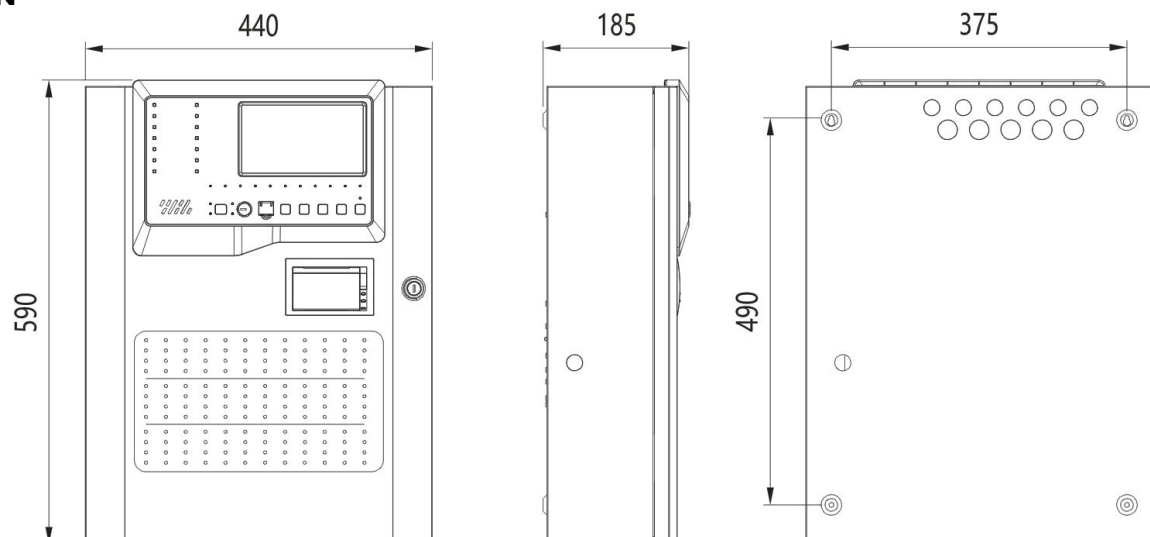
**PANEL OVERVIEW**



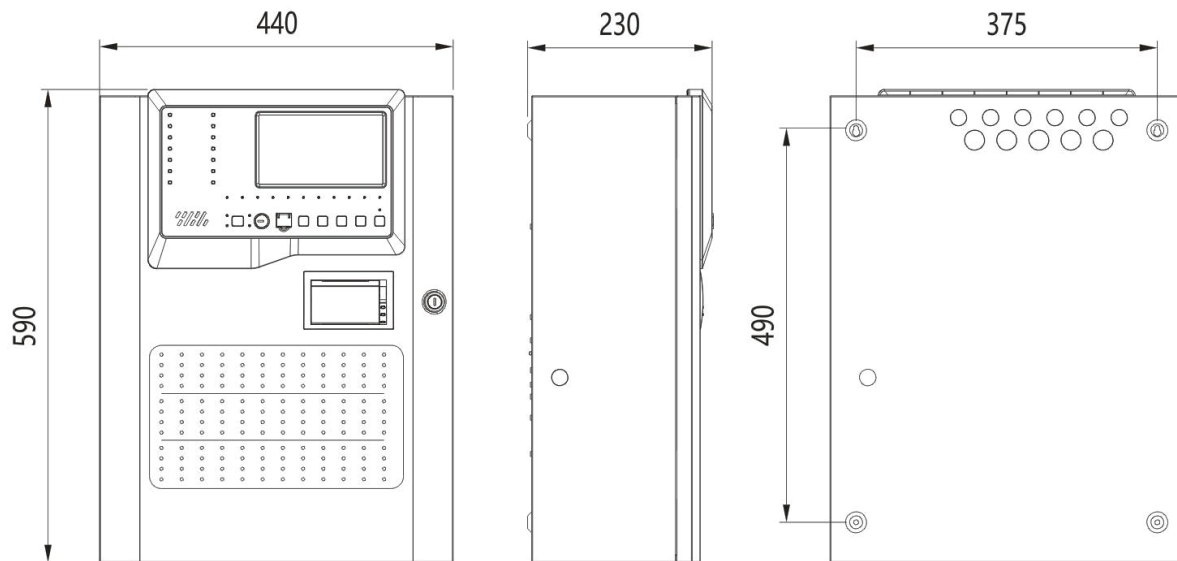
*Internal Diagram*

| KEY | DESCRIPTION                                 | KEY | DESCRIPTION                                            |
|-----|---------------------------------------------|-----|--------------------------------------------------------|
| A   | Main Processor Board ZB-9300-A              | H   | Loop Boards                                            |
| B   | Main Board SEC3008 B                        | I   | PS.E                                                   |
| C   | [Optional Part] Printer                     | J   | Battery                                                |
| D   | Zone Fire Alarm Indicator Board SEC3008 LED | K   | (Optional Part)<br>Networking Module SEC3008_COMx      |
| E   | Terminal board SEC3008 DZ                   | L   | (Optional Part)<br>Communication module SEC3008 Modbus |
| F   | Lightning protection board SEC3008_FL       | M   | (Optional Part)<br>Output interface expansion module   |
| G   | Loop base plate SEC3008_HLJB                | N   | Keyboard SEC3008_KEY                                   |

**DIMENSION**



*Panel Dimension (Standard)*



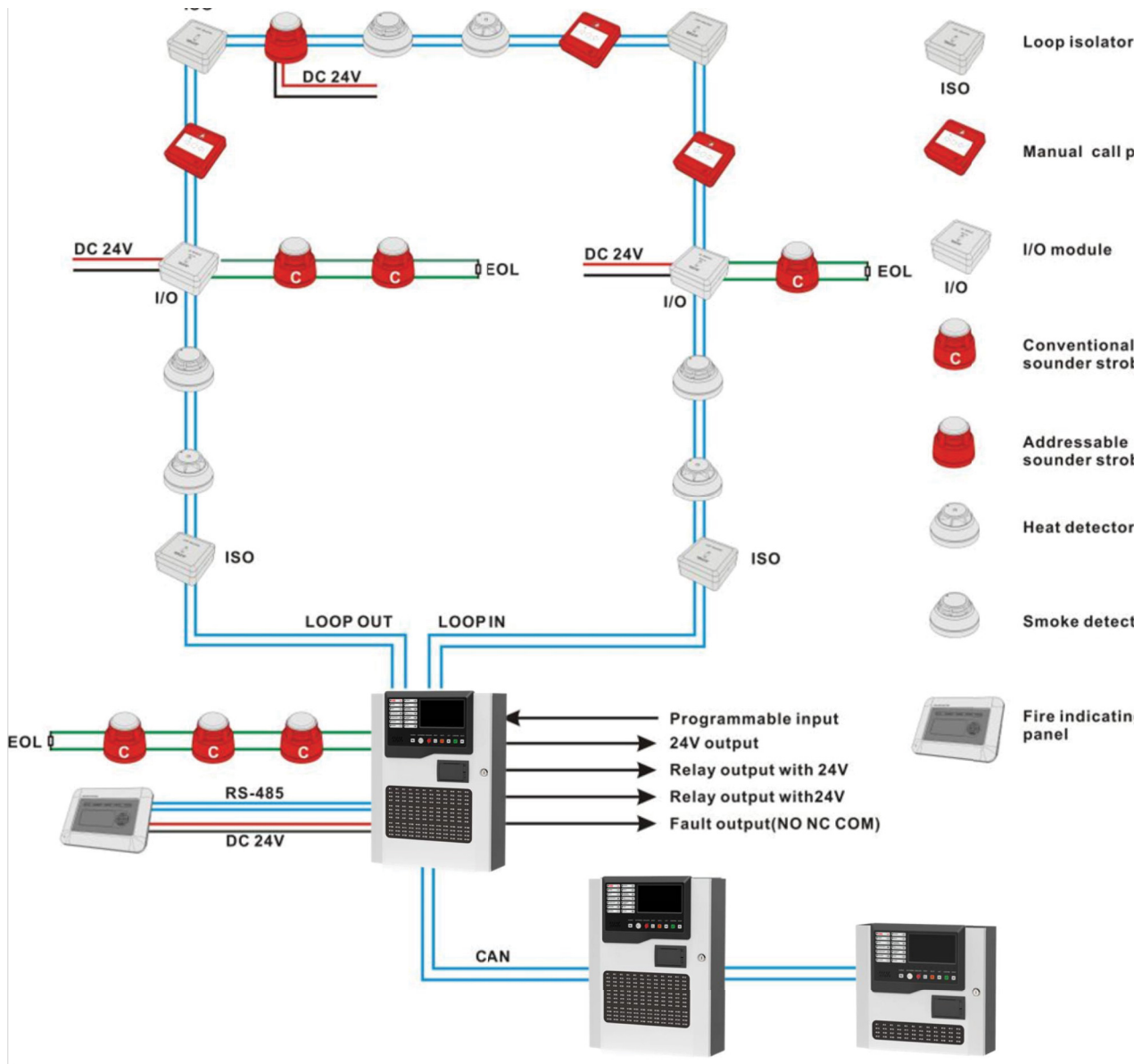
*Panel Dimension (Deep)*

## CONTROLS BUTTONS AND KEYS



*Panel Diagram*

| TYPE      | FUNCTION                                                                                                                      |
|-----------|-------------------------------------------------------------------------------------------------------------------------------|
| LOGIN     | Provides access to the prompt window for user' s login or logout                                                              |
| SILENCE   | Controls the switching off and re-sounding of sounder equipment.                                                              |
| EVACUATE  | Triggers the one-touch evacuation function.                                                                                   |
| RESET     | System reset                                                                                                                  |
| MUTE      | Eliminates the buzzer tone.                                                                                                   |
| LEFT      | Left arrow key.                                                                                                               |
| CONFIRM   | Short press to confirm key function.<br>Long press Is and release, switch focus, equivalent to the tab key of a USB keyboard. |
| RIGHT     | Right direction key                                                                                                           |
| AUTHORIZE | Left, log out.<br>Right, log in to 2 levels of authority.                                                                     |



*Typical Loop Connection*