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ODH2-32

FIRE ALARM CONTROL PANEL



PRODUCT OVERVIEW



JB-QB-ODH2-32
FIRE ALARM CONTROL PANEL
(Abbreviation: ODH2-32)

The ODH2-32 is a 24volt, 2, 4, 8, 16, 24 or 32 Zone, Class B, Conventional Fire Alarm Control Panel with battery charger. It is designed exclusively to meet EN54-2&4 standard and the latest market requirements. It has functions of operation indication, fault indication, alarm indication and cable checking for short circuit or broken circuit. The powerful and highly cost-effective ODH2-32 can be used in low-sized applications.

TECHNICAL SPECIFICATIONS

AC mains power supply: 187 - 242V AC/ 50Hz
 Battery: 2 / 4 / 8 Zone 24V2.2Ah; 16 / 24 / 32 Zone 24V7Ah
 System power supply output: DC28V 3.0 amps
 Detection zone capacity: Up to 30 fire detectors and infinite manual call points
 Standby Current: 200mA
 Alarm Sounder circuit: Built-in two sets of fire alarm terminals, each set of terminals output current 200mA.
 Fire & Fault contact output: 1.0 amp DC24V or AC1 25V
 Using environment: Temperature: 0C'50C
 Related Humidity: 95% (40 ± 2C)
 Dimensions: 370 x 320 x 130mm (length x width x depth)
 Weight: 6.2KGS (without batteries)/11KGS (with 7Ah batteries)

CHARACTERISTICS

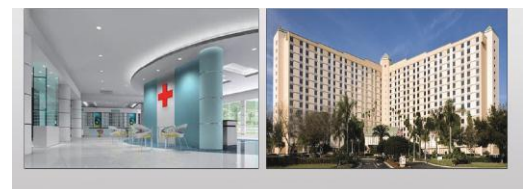
- * Comply with EN54-2&4 standard
- * Class B Initiating Device Circuits (IDCS) accept two-wire smoke detectors and any normally-open contact devices
- * Key-switch/Password user control access
- * 8-line x 16-character large LCD display screen with multi-language menu options
- * Configurable detection zones (Latching/Non-latching/Enable/Disable)
- * Remote panel inputs (Class Change/Evacuate/Silence Alarms/System Reset)
- * 4 alarm circuits as standard on 4 zone panel upwards
- * Configurable panel outputs (Fire Routing/Fault routing/Fire Protection)
- * Remote panel outputs (Evacuate/Buzzer Active/Disablement Active)
- * Programmable relay output (linkage control)
- * Delay mode configuration options (0-180 seconds)
- * Up to 10 fully functional repeaters connected via 2 core RS485 data cable
- * Extensive configuration and programming options to cater for individual requirements

BENEFITS

Compatibility: works with many other of equipment, panels and devices.
 Flexibility: powerful functions to meet all requirements.
 Wide range of detectors: works with all approved conventional detectors. Low maintenance cost: system can be maintained and serviced by fire servicing contractors.
 Alarm interlocks: general sounder silencing and system resetting for system with multiple panels.
 Ease of use: simple one touch operation - easy to learn and reduces errors.
 Diagnostic facilities: informative diagnostic LED indicators for easy identification and rectification of faults.
 Reliability: system designed with proven solid state detection technology. Local manufacturer support: system designed and supported locally by highly experienced support team.
 Compliance: BS EN 54 Parts 2&4:1998.
 Approval: HKFSD & CCCF.

APPLICATIONS

ODH2-32 is suitable for use in commercial complexes, hospitals, hotels, schools, factories, warehouses, data centers, condominiums etc.



INTERFACE CARD



ODH2-32-DZ

This card provides the termination for signal to all the detectors, call points, etc, corresponding to their respective zone.

MOTHERBOARD

This micro-processor based board provides all control of the alarm panel. It also provides indicating LED5 and LCD information display including general fault, zone alarm and zone



ODH2-32-M

POWER / CHARGER MODULE



This module incorporates the power & charger circuitry for the system. One unit shall be provided for each panel.

PANEL BUTFON LAYOUT



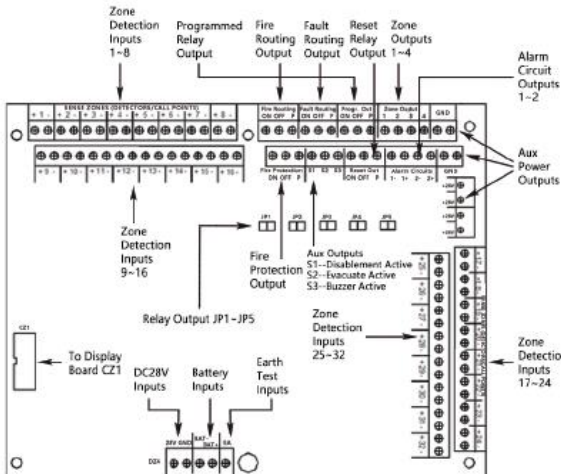
- Arrow Keys: Move the cursor
- Evacuate: Activate fire alarm bell & buzzer
- Start Sounder: Activate fire alarm bell
- Silence / Resound Alarms: Silence fire alarm bell or reactivate fire alarm bell
- Stop Sounder: Silence fire alarm bell
- Silence Buzzer: Silence buzzer
- Reset : Reset the fire control panel
- Disable: Disable zone after entering into disable menu
- Enable: Enable zone after entering into disable menu
- Delay On Off: Delay to activate alarm when the panel received fire signal
- Cancel: Return to home page
- Test Display: Light up all indicators on panel
- Enter: Enter the menu

PANEL INDICATE LAYOUT

- Power Supply On: Lights up when power supply is healthy
- Fire: Lights up when the panel received fire signal
- Supervisory: Lights up when the panel received alarm signal from other equipment
- General Fault: Lights up when the panel received any fault signal
- Battery Fault: Lights up when the battery fault
- Power Supply Fault: Lights up when 220V power cannot supply to panel
- System Fault: Lights up when micro-processor fault
- Earth Fault: Lights up when earth fault
- Batty Low: Lights up when battery low voltage
- Repeater Fault: Lights up when repeater fault
- Sounder Fault: Lights up when alarm bell fault
- Sounder Test: Lights up when test the display and buzzer

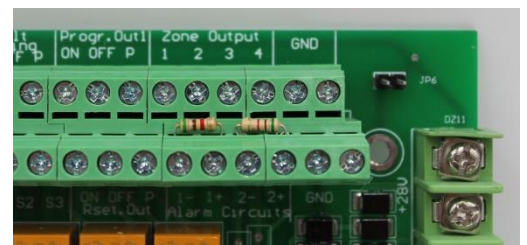


PANEL WIRING

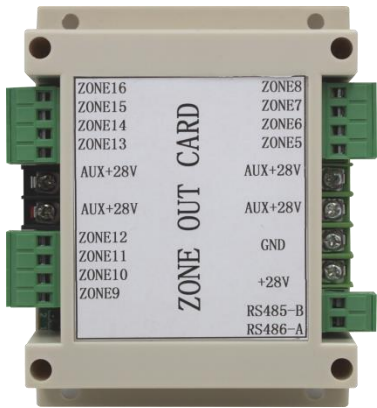


ZONE OUTPUT

ODH2-32 include 4 zone output for standard. (Two Type models of zone output expander card is available upon request)

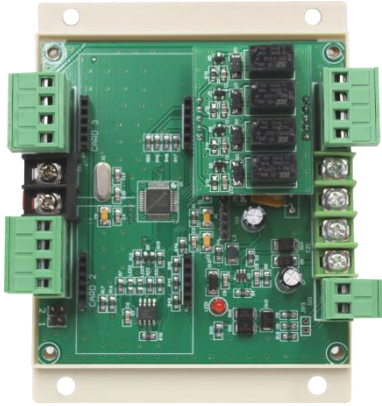
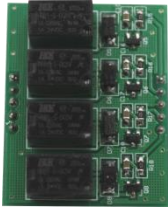


ZONE OUTPUT EXPANDER CARD



OZH-CB12: The basic function of these outputs is to changeover when the relevant zone is in alarm zone 5 - zone 16, OZH-CB12 provides 3 slots for OZH-OC-4(OZH-CH12 must be executed with OZH-OC-4)

OZH-OC-4: Use by OZH-CB12, provides 4 zone output processor



OZH-CB32: The basic function of these outputs is to changeover when the relevant zone is in alarm zone 1 - zone 32, OZH-CB32 provides 8 slots for OZH-OC-4A (OZH-CH32 must be executed with OZH-OC-4A)

OZH-OC-4A: Use by OZH-CB32, Provides 4 zone output