PA Hilton

FIRE ALARM TRAINER
B701

Features

- A double zone fire alarm control panel manufactured to LPCG Certified EN54-2/4 and BS 5839, mounted on a glass reinforced plastic display panel
- Industry standard components
- Allows simulation of six faults as standard to enhance student practical skills in fault-finding and rectification
- Activation of any of the detectors or the call point sets off the two alarm circuits. One utilises a standard bell alarm and the other a high intensity Xenon strobe beacon
- The audible alarm is provided with a removable muting device to limit excess noise

Learning capabilities

- Examination of the components and essential wiring of a typical two zone detector circuit, dual alarm system designed to LPCG Certified EN54-2/4 and BS 5839
- Investigation of the performance of both ionisation and visible smoke detector heads
- Demonstration of internal fault detection of battery and mains supply failure
- Demonstration of internal detection of both shorted and electrically open detector circuits and open alarm circuits

Description

To safeguard both life and property it is usual, when designing new industrial, office and public buildings, for a fire alarm system to be specified. With increasingly stringent modern safety standards, the upgrading of fire alarm systems to older buildings is also becoming more common. Though the safety standards and complexity of alarm systems will vary from country to country, all share a common basic format. Various forms of fire detectors will be linked to a central control panel and this in turn will be linked to an audible and sometimes visual alarm. In some cases, the system may also either shut down plant or transit systems and summon emergency services. In most cases the control system will have various internal fault detection and warning systems and internal or external power supply backup.

Technical Specification

- Glass reinforced plastic demonstration board on which are mounted:
- Control Panel - a two- zone detector and two zone alarm control panel manufactured to comply with BS5839 Part 4 1988 and BS5839 Part 1 and EN54 Installations
- Detector Zone - #1 -Comprising a fixed temperature detector unit and a rate of temperature rise detector both mounted inside fire resistant GRP enclosures. Both detectors are equipped with a heater designed to raise the temperature within the box and trigger the alarm
- Detector Zone - #2 – Comprising a multi-sensor detector, an optical smoke detector, and a manual (Break glass) call point. Both detectors are mounted inside fire resistant GRP enclosures with a stainless- steel backing plate
- Smoke to trigger the alarm may be admitted to the enclosures through holes in a stainless-steel base plate
- Alarm Circuit #1- a high intensity Xenon strobe visual alarm indicator
- Alarm Circuit #2 -an audible bell with removable damper (for use during prolonged experiments)
- Six Fault switches - A bank of six switches allowing the operator to simulate fault conditions that the control panel should be capable of detecting and giving both an audible and visual warning
- Comprehensive operations manual, which includes: Notes on theory and principles, Instructor's guide notes, Student test papers and sample answers, Electrical wiring diagram

What's in the Box?

- 1 x B701 Fire Alarm Trainer
- 1 x Operational manual
- 3 metre power lead
- Accessories Pack for B701

Weights & Dimensions

- Net dimensions: 1060mm (W) x 485mm (D) x 920mm (H)
- Net weight 48kg

Essential Services

- 300W 220/240 Volts, 50Hz. (With earth/ground) or:
- 300W 110/120 Volts, 60Hz. (With earth/ground)

Ordering information

To order this product, please call PA Hilton quoting the following codes:
B701/230 - Fire Alarm Trainer
B701/115 - Fire Alarm Trainer