Addressable Fire Alarm Learning System 583747 (46103-BA)



LabVolt Series

Datasheet

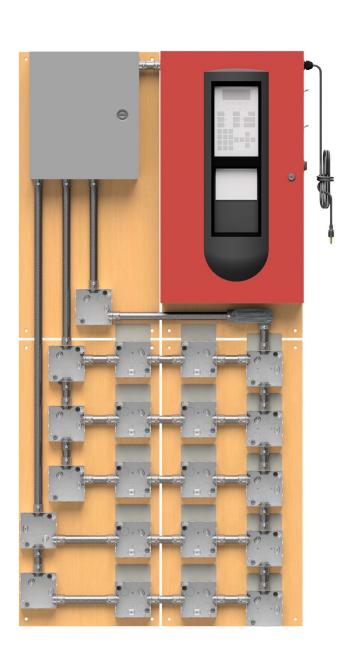


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General Description

Teach the fundamentals of addressable fire alarm systems in a compact workspace

This system is designed to learn the necessary skills to install and wire initiating devices and notification appliances as well as program an addressable fire alarm control panel.

Fire alarm systems utilizing modern technology and employing good engineering practice in the application of codes and standards greatly increase the chances of limiting fire propagation and saving lives.

Addressable fire alarm systems are commonly used in large buildings such as campuses or commercial premises spread over a wide area.

The Addressable Fire Alarm Learning System allows students to learn how to install, wire and test a complete circuit including notification appliances and initiating devices with the same components and tools they would use in their daily job. They also program the fire alarm control panel with the provided software. The system is like a real installation, but in a much smaller form factor, allowing multiple systems to be installed in rooms with limited space.

The manual guides the students step-by-step during their learning process with several photos and illustrations.

Features & Benefits

- Commercial-grade equipment for a realistic learning experience
- Very compact system, ideal for rooms with limited space
- System can be fixed to a wall or to an optional double-sided mobile workstation
- Control panel connections made through an auxiliary panel to protect the integrity of the FACP

List of Equipment

Qty	Description	model number
1	Fire Alarm Parts (Addressable) for the Fire Alarm Training System	8095743
1	Control Panel for the Fire Alarm Training System	_ 590011 (85213-0A)

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List of Manuals

Description	manuai number
Addressable Fire Alarm System (Job Sheets - Student)	8093121
Addressable Fire Alarm System (Job Sheets - Instructor)	8093123

Table of Contents of the Manual(s)

Addressable Fire Alarm System (Job Sheets - Student) (8093121)

- 1 Detection Circuit Class B
- 2 Detection Circuit with T-taps Class B
- 3 Detection Circuit Using Input Module Class B
- 4 Detection and Annunciator Circuits Class B
- 5 Detection and Annunciator Circuits Using an Audible Detector Base Class B
- 6 Detection Circuit Class A
- 7 Detection and Annunciator Circuits Class A
- 8 Detection Circuit Using Isolator Modules Class A
- 9 Ancillary Equipment Controlled by the Fire Alarm Control Panel

Addressable Fire Alarm System (Job Sheets - Instructor) (8093123)

- 1 Detection Circuit Class B
- 2 Detection Circuit with T taps Class B
- 3 Detection Circuit Using Input Module Class B
- 4 Detection and Annunciator Circuits Class B
- 5 Detection and Annunciator Circuits Using an Audible Detector Base Class B
- 6 Detection Circuit Class A
- 7 Detection and Annunciator Circuits Class A
- 8 Detection Circuit Using Isolator Modules Class A
- 9 Ancillary Equipment Controlled by the Fire Alarm Control Panel

Optional Equipment

Qty	Description	Model number
1	Fixture Kit	_ 583234 (39574-00)
1	Mobile Workstation, Fire Alarm	_ 580035 (46801-B0)
1	Campus Licence for Fire Alarm Training Systems	8096376 (80963-76)

System Specifications

Parameter	Value
Physical Characteristics	
Required Floor Space (H x W x D)	On Casters, 2135 x 1010 x 800 mm (84 x 39.8 x 31.5 in)

Equipment Description

Control Panel for the Fire Alarm Training System 590011 (85213-0A)

The Control Panel for the Fire Alarm Add-On Training System is a control panel of the addressable type for the Fire Alarm Training System. It provides one Class-A or Class-B addressable loop, two Class-A or Class-B output circuits, and a 30-LED annunciator panel.

Optional Equipment Description

Fixture Kit (Optional) 583234 (39574-00)



The Fixture Kit includes all accessories required to fix the components of the Fire Alarm Training Systems, Models 46103-A and 46103-B to the optional Mobile Workstation.

Specifications

Parameter	Value
Parts	Flat and lock washers, screws, struts, and spring nuts

Mobile Workstation, Fire Alarm (Optional) 580035 (46801-B0)



The Mobile Workstation is a versatile bench where two student groups can work at the same time. It is constructed from heavy-duty metal struts and painted using powder-coated paint for a durable surface. The unit is mounted on swivelling casters with a lock mechanism to allow easy motion as well as stable operation. The Fixture Kit (ordered separately), Model 39574, is required to fix the components on the Mobile Workstation. One Fixture Kit is required for each system.

Specifications

Parameter	Value
Physical Characteristics	
Dimensions (H x W x D)	1830 x 1010 x 800 mm (72 x 39.8 x 31.5 in)

Campus Licence for Fire Alarm Training Systems (Optional) 8096376 (80963-76)

The Campus License includes electronic and printed versions of the student and instructor manuals. The campus license grants modification and reproduction rights within the purchasing institution.

List of Manuals

Description	Manual number
Conventional Fire Alarm System (Work Orders - Student)	8093091
Conventional Fire Alarm System (Work Orders - Student)	8093092
Conventional Fire Alarm System (Work Orders - Instructor)	8093093
Conventional Fire Alarm System (Work Orders - Instructor)	8093094
Addressable Fire Alarm System (Job Sheets - Student)	8093121
Addressable Fire Alarm System (Job Sheets - Student)	8093122
Addressable Fire Alarm System (Job Sheets - Instructor)	8093123
Addressable Fire Alarm System (Job Sheets - Instructor)	8093125

Table of Contents of the Manual(s)

Conventional Fire Alarm System (Work Orders - Student) (8093091)

- 1 Schematic Diagram and Wiring (1)
- 2 Schematic Diagram and Wiring (2)
- 3 Component Installation
- 4 Schematic Diagram, Wiring, and Programming (1)
- 5 Schematic Diagram, Wiring, and Programming (2)
- 6 Schematic Diagram, Wiring, and Programming (3)
- 7 Schematic Diagram, Wiring, and Programming (4)
- 8 Schematic Diagram, Wiring, and Programming (5)
- 9 Schematic Diagram, Wiring, and Programming (6)
- 10 Schematic Diagram, Wiring, and Programming (7)
- 11 Schematic Diagram, Wiring, and Programming (8)
- 12 Schematic Diagram, Wiring, and Programming (9)

Conventional Fire Alarm System (Work Orders - Instructor) (8093093)

- 1 Schematic Diagram and Wiring (1)
- 2 Schematic Diagram and Wiring (2)
- 3 Component Installation
- 4 Schematic Diagram, Wiring, and Programming (1)
- 5 Schematic Diagram, Wiring, and Programming (2)
- 6 Schematic Diagram, Wiring, and Programming (3)
- 7 Schematic Diagram, Wiring, and Programming (4)
- 8 Schematic Diagram, Wiring, and Programming (5)
- 9 Schematic Diagram, Wiring, and Programming (6)
- 10 Schematic Diagram, Wiring, and Programming (7)
- 11 Schematic Diagram, Wiring, and Programming (8)
- 12 Schematic Diagram, Wiring, and Programming (9)

Addressable Fire Alarm System (Job Sheets - Student) (8093121)

- 1 Detection Circuit Class B
- 2 Detection Circuit with T-taps Class B
- 3 Detection Circuit Using Input Module Class B
- 4 Detection and Annunciator Circuits Class B
- 5 Detection and Annunciator Circuits Using an Audible Detector Base Class B

- 6 Detection Circuit Class A
- 7 Detection and Annunciator Circuits Class A
- 8 Detection Circuit Using Isolator Modules Class A
- 9 Ancillary Equipment Controlled by the Fire Alarm Control Panel

Addressable Fire Alarm System (Job Sheets - Instructor) (8093123)

- 1 Detection Circuit Class B
- 2 Detection Circuit with T taps Class B
- 3 Detection Circuit Using Input Module Class B
- 4 Detection and Annunciator Circuits Class B
- 5 Detection and Annunciator Circuits Using an Audible Detector Base Class B
- 6 Detection Circuit Class A
- 7 Detection and Annunciator Circuits Class A
- 8 Detection Circuit Using Isolator Modules Class A
- 9 Ancillary Equipment Controlled by the Fire Alarm Control Panel

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