

# Designo® Fire Safety Compact Systems

MXL Device Interface Module

Model FCL2004-U1

MXL-IQ Migration Hardware Kit

Model FHA-MIQKIT-04 | FHA-MIQKIT-05

**SIEMENS**  
*Ingenuity for life*

## Architect & Engineer Specifications

### MXL Device Interface Module (FCL2004)

- ❑ Supports Two (2) intelligent device circuits:
  - up to 60 intelligent devices per circuit
- ❑ One(1) Reset switch for the main processor and seven (7) diagnostic LEDs
- ❑ Capability to report "Power" | "Alarm" | "Trouble" system conditions
- ❑ Option to convert existing MXL C5GM configuration to Designo
- ❑ On-board microprocessor
- ❑ Ground-fault detection
- ❑ Programmable Input / Output module
- ❑ Supports relay bases, audible bases, remote lamps
- ❑ UL864 9th Edition Listed, ULC-S527 3rd Edition Listed; USCG Approval (pending)

### MXL-IQ Migration Hardware Kit

- ❑ Migration of panel hardware into a Designo Fire Safety control panel:
  - Fire-only panel for up to 252 addressable points, Model FC2025
  - Fire-only panel for up to 504 addressable points, Model FC2050
- ❑ Replacement of internal-system electronics of each Siemens legacy MXL-IQ control panel
- ❑ Each new migration hardware includes the following equipment:
  - one (1) outer door
  - one (1) inner door
  - one (1) back plate
- ❑ Re-use of existing panel's back box
- ❑ No need to replace existing conduit and wire
- ❑ Orderable with either **black** or **red** outer door
- ❑ Migration hardware functions with optional Designo Fire Safety system modules:
  - Digital Alarm Communication Transmitter (DACT), FCA2015-U1
  - Releasing module, 30C2001-U1
  - NAC expansion module, FC12011-U1
  - Leased Line City-Tie Module, FC12020-U1
- ❑ Suitable for use with the following MXL-IQ enclosures: MSE-3U/R & MSE-3L/3LR
- ❑ UL864 9th Edition Listed, ULC-S527 3rd Edition Listed

## Introduction

Siemens provides migration options for MXL-IQ or MXL systems to Designo Fire Safety Compact Systems (FC2025 / FC2050). The MXL Device Interface Module allows MXL intelligent addressable devices onto existing MXL-IQ or MXL systems to connect to Designo Fire Safety Compact panels. The MXL-IQ Migration Hardware Kit allows efficient conversion of an MXL-IQ to a Designo Fire Safety Compact system keeping the existing back box, wiring and conduit in place.

## Product Overview

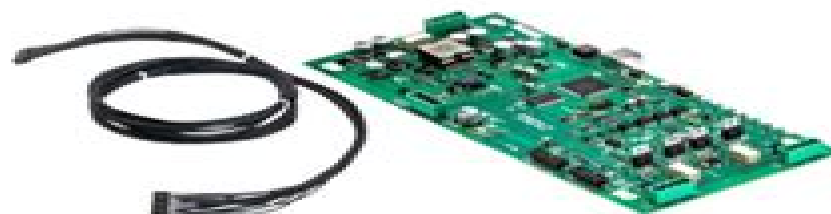
### MXL Device Interface Module

The Model FCL2004-U1 loop driver is a module that allows MXL intelligent addressable smoke detectors, manual stations, monitors, and control devices to interface to the Designo Fire Safety 252-Point and 504-Point Addressable Control Panels (Models FC2025 and FC2050).

The application program loaded into the on-board microprocessor controls the FCL2004 operation. A fully operational Designo fire-alarm control panel (FACP) can support a maximum of 240 MXL intelligent field devices using up to two (2) FCL2004 modules inside the enclosure.

Model FCL2004-U1 contains one reset switch for the main processor and seven (7) diagnostic LEDs. Ground fault detection of the intelligent loops is also provided.

All field devices connected to the FCL2004 module are addressed and tested using the Device Programming Unit (DPU) or the FPI-21 Programmer/Tester. The select system setting on the DPU and FPI-32 must be set to the MXL Device Interface Module.



**Model FCL2004-U1**  
MXL Device Interface Module



Siemens  
Smart Infrastructure - Building Products

[firealarmresources.com](http://firealarmresources.com)

**Data Sheet 6827**  
[usa.siemens.com/fire](http://usa.siemens.com/fire)

# Esa 2015 Fire Alarm Manual

**John E. Traister**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

## **Esa 2015 Fire Alarm Manual:**

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**Manufacturers**, 2003 Vols for 1970 71 includes manufacturers catalogs *Fire Alarm Systems*, 1988 *Fire Alarm Systems : a Reference Manual* Canadian Fire Alarm Association, 1986 *NFPA Pocket Guide to Fire Alarm and Signaling System Installation* Merton W. Bunker, Jr., 2009 Previous editions titled NFPA pocket guide to fire alarm system installation *Official Fire Alarm Manual of Installation and Maintenance Procedures* International Municipal Signal Association, 1972

**Fire Alarm Guide for Property Managers** E. Morawski, 2007-01-01 Illustrated guide with everything a property manager building engineers and service technicians need to know about fire alarms and sprinkler systems **Electrician's Book -FIRE ALARM SYSTEM** Juliana Barbu, Cornel Barbu, 2011 **A Fire Alarm Systems Reference Manual for the Building Manager** David Duggan, 2020 *Design and Application of Security/fire-alarm Systems* John E. Traister, 1990 A revision of the highly popular guide to the design and installation of security and fire alarm systems in residential commercial and industrial buildings The book covers how to methods for equipment selection system design cost estimating system installation and troubleshooting Designed for quick reference and on the job use it includes scores of diagrams drawings and photographs to illustrate every design and installation procedure **Fire Alarm Training Manual** Potter Electric Signal Company, 2000\* **NFPA Pocket Guide to Fire Alarm System Installation** Merton W. Bunker, Jr., Richard J. Roux, 2006 Fully updated to reflect the provisions of the 2007 National Fire Alarm Code NFPA 72 and the 2005 National Electrical Code NFPA 70 this brand new edition provides all the information you need to design install or maintain fire alarm systems It has been reorganized to follow the order of topics presented within the NAFC and includes updated requirements for power supplies survivability and spacing of detectors and notification appliances *An Introduction to Fire Extinguishing and Alarm Systems for Professional Engineers* J. Paul Guyer, P.E., R.A., 2021-10-11 Introductory technical guidance for mechanical engineers electrical engineers fire protection engineers and construction managers interested in fire extinguishing and alarm systems Here is what is discussed 1 EXTINGUISHING SYSTEMS 2 ALARM SYSTEMS 3 RCM

METHODOLOGY 4 ITM TASK DESCRIPTIONS AND FREQUENCIES      **Fire Detection and Fire Alarm Systems. Manual**  
**Call Points** British Standards Institute Staff,2001-07-15 Fire alarms Alarm systems Fire detectors Fire safety in buildings  
Fire safety Warning devices Fire points Manually operated devices Reliability Performance Dimensions Design Graphic  
symbols Switches Electronic equipment and components Performance testing      **Training Manual on Fire Alarm**  
**Systems** National Electrical Manufacturers Association,1985      Describe Industrial Fire Detection and Alarm Systems  
[electronic Resource] : Training Kit HDC Human Development Consultants,2003      **Training Manual on Fire Alarm**  
**Systems** National Electrical Manufacturers Association,1994      **NZSS 1299** New Zealand Standards Institute,1957  
**Detectors and Fire Alarm Systems ,      Fire Alarm Systems - 2017** Njatec,2019-09

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