

Cerberus® PRO

Operating Interface Units

Models FCM2018-U3 | FCM2043-U3 |
FCM2019-U3 | FCM2035-U3

Architect & Engineer Specifications

- Multi-use, main-system interface modules
 - Power, Alarm, Gas Alarm, Supervisory, Silenced, Ground Fault, Audibles On, and Trouble system-status LEDs — Alarm has a larger, distinctive LED
 - Partial system-disable LED
 - Audible Status LEDs ('On' and 'Silenced')
 - Custom-configurable LED buttons
- System-control menus
 - Context-sensitive 'Help' menu
 - Four-way navigation buttons and extended-views capability
- Ethernet-port connectivity for system configuration and Firmware-software transfers
- 2"-x- 4-3/4", backlit LCD Screen
 - Eight [8] lines, 40 characters per row, system-status displays
- Global annunciation and control capability
- Alphanumeric pad
- User-prompted large softkey buttons for multi-programming options and system-control operating sequence
 - Seven (7) spare user-programmable buttons
 - Slide-in labels appear adjacent to system-operation buttons
- UL 864 10th Edition Listed
 - UUKL Listing for smoke control
- ULC Listed
- FM, CSFM and NYC Fire Department Approved (Models FCM2018-U3, FCM2019-U3, FCM2035-U3)

Product Overview

Compact panel PMIs are available in various models, providing designers of fire systems the flexibility they need to address ever-evolving needs of the modern world. Below is a list of specifications and attributes shared across all of the PMIs.

Standard PMI

FCM2018-U3



The model FCM2018-U3 is the base model operating interface unit. It has control and display elements that are compatible with Cerberus PRO fire systems (Models FC922 and FC924), Cerberus PRO Intelligent Voice Communication [IVC] systems (Models FV922 and FV924), as well as with the remote Fire Terminal (Model FT924).

PMI with Extra LEDs

FCM2019-U3 – UL | FCM2035-U3 – ULC (Canada)

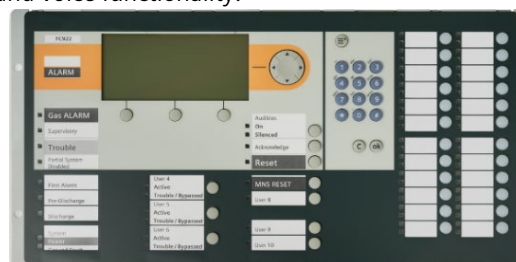
The model FCM2019-U3 and FCM2035-U3 operating interface units have the same characteristics as the FCM2018-U3, with the exception of having an additional twenty-four programmable LED sections found on the right side of the PMI. Each LED section contains two LEDs; one multi-color and one yellow. These LED sections can be configured for zone status indication.



PMI with Integrated Switch Module

FCM2043-U3

The model FCM2043-U3 PMI has the same characteristics as the FCM2018 except it comes with a built-in switch module (FTO2023) on the right side of the interface. This switch module provides the unit with twenty four switch sections, each of which contain two programable LED's (one multicolor and one yellow), as well as an LED push-button. The switch module section can be connected to either the peripheral data-bus to have a direct connection to the Cerberus PRO panel or be connected to the CAN bus on the voice-control panel and remote microphone station. Connecting to the peri-bus will grant the PMI fire functionality. Connecting to the CAN bus will grant the PMI all fire and voice functionality.



Attributes

- LED Buttons are configurable
- Plain-text display with two (2) lines of information per Alarm event
- Additional display of location-specific reaction texts can be stored
- Operations can be accessed with either a password or an optional key switch
- Context-sensitive soft keys
- Several events can be displayed simultaneously
- Inscription strips for sliding into the PMI come with each product
- PMI will play audible sounds when there are unacknowledged events

Operations Overview



Each Cerberus PRO system is operated and controlled from a PMI. This unit allows for end-users to efficiently acknowledge, silence/unsilence, and reset the panel, among many other programmable functions. Furthermore, Just below the LCD screen are three user-programmable softkey buttons that can be used to control the displayed information and navigate through the menus. To the right of the LCD screen is a four-way navigation-menu button, allowing the end-user to scroll through the list of events.

The LED indicators function in a standalone mode in every zone. Configurable selection of events can be assigned to each LED button per zone, which may be a 'static' or a 'flashing' indicator, using the Cerberus PRO system's custom-configuration tool. The LED indicators can be used for system status information, zone control functions, bypasses, walk tests, voice functionality, smoke control, and much more.

The operating interface units can provide global functionality by annunciation and control of multiple Cerberus PRO systems with the use of the Cerberus PRO custom-configuration tool. Moreover, the programming software is held in flash electrically erasable programmable read-only memory (EEPROM).

The display screen for each interface module categorizes events by type, providing a separate event tab for Fire Alarm, Gas Alarm, Supervisory, Trouble and Test events. Each event can have a custom message of up to 40 characters describing the event's location.

In addition to the text on screen, the system displays the category of the active event, such as Automatic Alarm, Water Flow, Manual, etc. Up to two (2) events can be displayed at a time. When more than two (2) events are present, the four-way navigation-menu buttons allow the end-user to scroll up and down the list of events. New, 'unacknowledged' events are indicated by a flashing exclamation point ('!'). Once 'acknowledged', the exclamation point changes to a non-flashing check mark ('✓').

The maintenance menu contains options for adjusting the contrast and brightness for the LCD screen, as well as supplying options for diagnostics and system-configuration programming. Once beyond the password-protected initial screen in 'Menu' view, system-configuration functions allow the user to enable, disable, or test alarms, as well as activate / deactivate switches, report, control and maintain data.













Temperature and Humidity Range

The Operating Interface Units are UL 864 10th Edition Listed for indoor dry locations UL within a temperature range of 120+/-3°F (49+/-2°C) to 32+/-3°F (0+/-2°C) and a relative humidity of 93+/-2% at a temperature of 90+/-3°F (32+/-2°C).

Technical Data	
Supply Input	
Voltage	24 VDC
Standby Current	130 mA
Alarm Current	170 mA [+ 1 mA per LED + 30 mA for alarm LED]

Details for Ordering		
MODEL OR TYPE	PART NUMBER	PRODUCT
FCM2018-U3	S54400-C40-A2	Operating Interface Unit
FCM2019-U3	S54400-C41-A2	Operating Interface Unit [with LED module]
FCM2043-U3	S54400-C152-A1	Operating Interface Unit [with Switch module]
In Canada order:		
FCM2035-U3	S54400-C140-A1	Operating Interface Unit [with LED module]

Related Hardware

Model	SAP Part Number	Description	Image
FN2001-U1	S54400-A60-A1	SafeDLINK /Cnet network Module. Supports 'peer-to-peer' networking between the Fire Alarm Control Panels and the Remote Fire Terminal. The module is plugged into the Operating Interface Units.	
FCA2016-U1	S54400-A39-A1	RS-485 Module. The module is plugged into the PMI & mainboard and is intended for operating periphery devices on the RS-485 circuit. The remote display terminals are remotely connected to the FACP's via this module.	
FHA-MIQKIT-01	S54400-A66-A1	MXL Device Module w/PMI Cable (includes FCL2004-U1). It offers support for legacy MXL and MXL-IQ peripherals using the FCL2004 device interface module for a seamless transition of an existing MXL-IQ Control Panel into a fully operational 252 or 504 addressable point FACP.	
FHA-MIQKIT-02	S54400-A67-A1	MXL Device Module w/Expansion Cable (for connecting the FCL2004-U1's together).	
FHA-MIQKIT-03	S54400-K1-A1	MXL Device Module Cable Set - includes (1) PMI cable and (1) expansion cable.	
FCL-MXLPLATE	S54400-B153-A1	MXL Device Module Mounting Plate.	
FCA2033-A1	S54400-P154-A1	S1 License Key for Remote Viewer Capability and Control between a 252 / 504-point addressable FACP and a personal computer (PC).	
FCA2034-A1	S54400-P155-A1	S2 License Key for BACnet output. Used for monitoring-only purposes by a third-party system specific to life-safety objects.	
FCA2035-A1	S54400-P156-A1	S3 License Key is a combination license, offering full virtual monitoring and control as the S1 license key, as well as providing the distribution of BACnet (monitoring-only) communications.	
FHD2004-U1	S54400-B52-A1	Inner door of the Fire Panel System Enclosure.	
FCA2015-U1	S54400-A63-A1	Dialer Module (DACT). Used for communication between a 252-point or 504-point addressable system with a remote Fire Terminal or with a central or remote Monitoring Station.	
FCA2031-A1	S54400-A153-A1	Connection Module (MONET). The module is plugged into the Network Module Pos. 1 on the PMI Mainboard. Transfers degraded mode signals from the Voice Card cage or Ethernet network switch.	

PMI Kits

Model	SAP Part Number	Description	PMI Included	Market (UL / ULC)
FC922-LE	S54400-C122-A1	FC922-LE 252 PT SYS, 170W PS & 24 LEDS. Consists of: One FCM2035-U3, one FP2011-U1, one FCI2016-U1, one FCA2032-U1	FCM2035-U3	ULC
FC922-LF	S54400-C126-A1	FC922-LF 252 PT SYS, 300W PS & 24 LEDS. Consists of: One FCM2035-U3, one FP2012-U1, one FCI2016-U1, one FCA2032-U1	FCM2035-U3	ULC
FC922-LS	S54400-C121-A1	FC922-LS 252 PT SYS, 170W PS. Consists of: One FCM2018-U3, one FP2011-U1, one FCI2016-U1, one FCA2032-U1	FCM2018-U3	ULC
FC922-LT	S54400-C125-A1	FC922-LT 252 PT SYS, 300W PS. Consists of: One FCM2018-U3, one FP2012-U1, one FCI2016-U1, one FCA2032-U1	FCM2018-U3	ULC
FC922-UE	S54400-C16-A1	252-point system with 170W power supply and operator interface with 24 zone LEDS. Consists of: One FCM2019-U3, one FP2011-U1, one FCI2016-U1	FCM2019-U3	UL
FC922-UF	S54400-C22-A1	252-point system with 300W power supply and operator interface with 24 zone LEDS. Consists of: One FCM2019-U3, one FP2012-U1, one FCI2016-U1	FCM2019-U3	UL
FC922-US	S54400-C14-A1	252-point system with 170W power supply and standard operator interface. Consists of: One FCM2018-U3, one FP2011-U1, one FCI2016-U1	FCM2018-U3	UL
FC922-UT	S54400-C20-A1	252-point system with 300W power supply and standard operator interface. Consists of: One FCM2018-U3, one FP2012-U1, one FCI2016-U1	FCM2018-U3	UL
FC924-LE	S54400-C124-A1	FC924-LE 504 PT SYS, 170W PS & 24 LEDS. Consists of: One FCM2035-U3, one FP2011-U1, one FCI2017-U1, one FCA2032-U1	FCM2035-U3	ULC
FC924-LF	S54400-C132-A1	FC924-LF 504 PT SYS, 300W PS & 24 LEDS. Consists of: One FCM2035-U3, one FP2012-U1, one FCI2017-U1, one FCA2032-U1	FCM2035-U3	ULC
FC924-LS	S54400-C123-A1	FC924-LS 504 PT SYS, 170W PS. Consists of: One FCM2018-U3, one FP2011-U1, one FCI2017-U1, one FCA2032-U1	FCM2018-U3	ULC
FC924-LT	S54400-C127-A1	FC924-LT 504 PT SYS, 300W PS. Consists of: One FCM2018-U3, one FP2012-U1, one FCI2017-U1, one FCA2032-U1	FCM2018-U3	ULC
FC924-UE	S54400-C17-A1	504-point system with 170W power supply and operator interface with 24 zone LEDS. Consists of: One FCM2019-U3, one FP2011-U1, one FCI2017-U1	FCM2019-U3	UL
FC924-UF	S54400-C23-A1	504-point system with 300W power supply and operator interface with 24 zone LEDS. Consists of: One FCM2019-U3, one FP2012-U1, one FCI2017-U1	FCM2019-U3	UL
FC924-US	S54400-C15-A1	504-point system with 170W power supply and standard operator interface. Consists of: One FCM2018-U3, one FP2011-U1, one FCI2017-U1	FCM2018-U3	UL
FC924-UT	S54400-C21-A1	504-point system with 300W power supply and standard operator interface. Consists of: One FCM2018-U3, one FP2012-U1, one FCI2017-U1	FCM2018-U3	UL

NOTICE – The information contained in this data-sheet document is intended only as a summary, and is subject to change without notice. The product(s) described here has/have a specific instruction sheet(s) that cover various technical, limitation and liability information.

Copies of install-type, instruction sheets – as well as the *General Product Warning and Limitations* document, which also contains important data, are provided with the product, and are available from the Manufacturer.

Data contained in the aforesaid type of documentation should be consulted with a fire-safety professional before specifying or using the product.

Any further questions or assistance concerning particular problems that might arise, relative to the proper functioning of the equipment, please contact the Manufacturer.



Cerberus® PRO

Siemens Industry, Inc.
Smart Infrastructure - Building Products
2 Gatehall Drive • Parsippany, NJ 07054
Tel: (973) 593-2600

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