Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Cerberus PRO Fire Safety

Remote Display Terminals (with RS—485 interface

Date: 06/19/13

Models FT2014-U3 / R3 and FT2015-U3 / R3 (with Model FCA2016-A1)

ARCHITECT AND ENGINEER SPECIFICATIONS

Models FT2014-U3 / R3 and FT2015-U3 / R3:

- 2" –x– 4-¾" backlit LCD screen
- Event and audible-status LEDs
- Supports Style 4 or Style 6 wiring
- Built-in transient protection
- Mounts in its own enclosure
- Optional system control
- Downloadable firmware
  - Built-in flash electrically erasable programmable read-only memory (EEPROM)
- Scroll buttons to view additional events
- Local sounder
- UL 864 9th Edition, ULC Listed; FM, CSFM & NYC Fire Dept. Approved

Model FT2015-U3

Model FCA2016-A1

Model FCA2016-A1:

- RS–485 module provides communication to Remote Display Terminals
- Dual, standardized RS–485 interface
- Supports 'Class B' (Style 4) and 'Class A' (Style 6) wiring configurations
- Up to eight (8) devices on the RS–485 Style 6 loop Universal Fire Protocol (UFP) limitation
- Electrical isolation between the RS–485 interfaces and the panel
- Ground-fault monitoring
- UL 864 9th Edition Listed, ULC Listed; FM, CSFM & NYC Fire Dept. Approved

Product Overview

The Remote Display Terminals (Models FT2014-U3 / R3 and FT2015-U3 / R3) are remote light-emitting diode (LED) / liquid-crystal display (LCD) units that show the existing status of a Cerberus PRO 252 / 504-point system.

A LED will illuminate for any given *Alarm*, *Gas Alarm*, *Supervisory* and *Trouble* Cerberus PRO-system event. A 2" –x– 4-3/4" LCD screen will give details of the event in alphanumeric form. The display screen can be scrolled to reveal additional events. Optional remote-system-control capabilities are also available.

The RDTs (as well as Model FCA2016-A1) are FM (#3010); CSFM (#7165-0067:0259) and FDNY (#6104) Approved.

Specifications

Each RDT has separate LEDs for *Alarm*, *Gas Alarm*, *Supervisory*, and *Trouble* events on a Cerberus PRO FACP. Each LED will flash when 'unacknowledged' events are present. The LED will change to 'steady', upon acknowledgment of the event.

Additionally, the remote display terminals have a LED to indicate system power; a separate ground-fault LED, and four (4) additional user-programmable LEDs. There are also two (2) LEDs that indicate the state of audible circuits on the system:

- One (1) LED to indicate that the circuits are 'active'
- One (1) LED to indicate the circuits have been 'silenced'

When the Cerberus PRO FACP is in its 'normal' state (with no events present), the screen will annunciate the system ID data, and will show the date, time-of-day. When an event has been triggered to the Cerberus PRO panel, the LCD display will show the following:

- Event type and zone
- Custom message for that zone
- Usage of the zone
- 'Unacknowledged' or 'Acknowledged' event

In addition to the aforementioned features, the display will show the total number of all types of events present on the system.

The display has a backlight feature that operates upon receiving any event information or when any operator buttons are pressed.

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Specifications – (continued)

The Model FT2014-series display terminal has a local sounder silence button, which operates when any events are displayed on the system. Pressing any operator buttons will silence the local sounder when an event is present.

Each remote display terminal has a navigation button that is used for displaying next-event or previous-event information in the sequence, and has a local sounder silence button.

The Model FT2014-series has one (1) button used to silence the local sounder. The Model FT2015-series has three (3) control buttons for 'acknowledging' events, silencing audible circuits and resetting the system. Additionally, there are three (3) user-programmable buttons available. The Model FT2015-series has an integral key switch that enables the control buttons to operate.

The remote display terminals are remotely connected to the Cerberus PRO FACP, via the RS–485 interface. The Model FC922 and FC924 Cerberus PRO panels require the Model FCA2016-A1 RS–485 module to provide communication to the remote display terminals. Model FCA2016-A1 supports Style 4 or Style 6 wiring. Up to eight (8) modules can be supported on a RS–485 bus. Input power of 24VDC is required to run the remote display terminals, and can be provided from a Cerberus PRO FACP or other ®UL Listed 24VDC power source.

The remote display terminals have screw terminals capable of supporting 12 to 22 American-Gauge Wires (AWG).

The remote display terminals can be mounted in a (2) two-gang electrical box or a (4) four-inch square electrical box. No flush-trim kit is required. Each unit is approximately 12-1/4"(31.2cm.) wide; 9" (22.9cm.) high; and 2-1/2" (6.4cm.) deep.

Each RS–485 interface is approximately 1.97" (5cm.) wide; 2.76" (7cm.) high; and 0.6" (1.5cm.) deep. The weight of Model FCA2016-A1 is 0.044 Lbs. (20g).

Temperature and Hu

Products are ®UL 864 9th Editio
locations within a temperature
(49+/-2°C) to 32+/-3°F (0+/-2°C)
of 93+/-2% at a temperature of 90+/-3°F (32+/-2°C).

Technical Data

RS–485 Interface	Voltage		3.3VDC
	Operating Current:	▪ Normal (Standby mode)	Approx. 75 mA
		▪ *Alarm*	Approx. 136 mA
	Connection		Bus structure
	Communication mode		Half-duplex
	Number of participants		Eight (8), max.
	Maximum wire length		3,937 ft. (1200 meters)
CONNECTIONS	RS–485 Interface: ▪ Design		4-pole screw terminal
	▪ Cross-section		12 to 22 American-Gauge Wires (AWG)
	To the operating unit		Plug-in-type connections
Power Requirements	FT2014-series		24VDC @ 55mA
	FT2015-series		24VDC @ 55mA

Related Documentation

Product	Data Sheet Number
Remote Peripheral Module	9811
252-point Cerberus PRO system	9815
504-point Cerberus PRO system	9815

Details for Ordering

Model Number	Part Number	Description
FT2014-U3	S54400-B80-A1	Remote Display Terminal
FT2014-R3	S54400-B73-A1	Remote Display Terminal, Red
FT2015-U3	S54400-B88-A1	Remote Display Terminal [with control]
FT2015-R3	S54400-B16-A1	Remote Display Terminal [with control], Red
FCA2016-A1	S54400-A39-A1	RS–485 Interface

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

Copies of these instruction sheets and the *General Product Warning and Limitations* document, which also contains important information, are provided with the product and, are available from the Manufacturer.

Information contained in these documents should be consulted before specifying or using the product. For further information or assistance concerning particular problems contact the Manufacturer.