

Desigo® Fire Safety

Remote Display Terminals (with RS-485 Interface)

Model FT2014-U2 / R2 and FT2015-U2 / R2
(with Model FCA2016-U1)

Architect & Engineer Specifications

Models FT2014-U2 / R2 and FT2015-U2 / R2:

- 2"-x- 4-3/4" backlit LCD screen
- Event and audible status LEDs
- Supports 'Class B' (Style 4) or 'Class A' (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 10th Edition Listed, ULC Listed
- FM, CSFM & NYC Fire Dept. Approved

Model FCA2016-U1:

- RS-485 module provides communication to Remote Display Terminals (Models FT2014, FT2015)
- Dual, standardized RS-485 interface
- Supports 'Class B' (Style 4) and 'Class A' (Style 6) wiring configurations
- Electrical isolation between the RS-485 interface and Desigo panel
- Ground-fault monitoring
- Up to eight (8) devices on the RS-485 Style 6 loop Universal Fire Protocol (UFP) limitation
- UL 864 10th Edition Listed, ULC Listed
- FM, CSFM & NYC Fire Dept. Approved

Product Overview

The Remote Display Terminals (Models FT2014-U2 / R2 and FT2015-U2 / R2) are remote light-emitting diode (LED) / liquid-crystal display (LCD) units that show the existing status of a Desigo 252 / 504-point system.

A LED will illuminate for any given Alarm, Gas Alarm, Supervisory and Trouble Desigo-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 Remote Display Terminals (as well as Model FCA2016-U1) are FM (#3010); FDNY (#6104) and CSFM (#7165-0067:0259) Approved.

Specifications

The remote display terminals have separate LEDs for **Alarm, Gas Alarm, Supervisory, and Trouble** events on a Desigo 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 an 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 Desigo FACP is in 'normal' state (with no events present), the screen will annunciate the date and time-of-day.

When an event has been triggered to the Desigo 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 status or when any operator buttons are pressed.



**Model FT2015-U2
Remote Display Terminal**



**Model FCA2016-U1
RS-485 Interface**



Specifications (Cont.)

The Model FT2014-series display terminal has a local sounder that operates when any new events are displayed on the system. Pressing the local sounder silence button or 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.

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 Desigo FACP, via the RS-485 interface. The Model 252-point and 504-point Desigo panels require the Model FCA2016-U1 RS-485 module to provide communication to the remote display terminals. Model FCA2016-U1 supports Style 4 or Style 6 wiring.

Up to eight (8) modules can be supported on a given RS-485 communications bus.

24-Volt power is required to run the remote display terminals, and can be provided from a Desigo FACP or other UL Listed 24VDC power source.

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

The remote display terminals can be mounted to 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-U1 is 0.044 Lbs. (20g).

Temperature and Humidity Range

Products are UL 864 10th Edition listed for indoor dry locations within a temperature range of 120+/- 3°F (2°C) to 32+/- 3°F (0+/- 2°C) Temperature and Humidity Range and a relative humidity 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.
	Wire Length		3940 ft. (1200 meters) (unshielded / twisted-pair wiring) for both Class A & Class B
Connections	RS-485 Interface		
	▪ Design		4-pole screw terminal
	▪ Admissible Cross-Section Cable		12 to 22 American Wire Gauge (AWG)
	To the operating unit		Plug-in-type connection
Power Requirements	FT2014-series		24VDC @ 55mA
	FT2015-series		

Details for Ordering

Model or Type	Part Number	Description
FT2014-U2	S54400-F67-A1	Remote Display Terminal
FT2014-R2	S54400-B75-A1	Remote Display Terminal, Red
FT2015-U2	S54400-F68-A1	Remote Display Terminal [with control]
FT2015-R2	S54400-B15-A1	Remote Display Terminal [with control], Red
FCA2016-U1	S54400-A39-A1	RS-485 Interface

Related Documentation

Product	Datasheet #
Remote Peripheral Module	6811
252-point Desigo Fire Safety System	6815
504-point Desigo Fire Safety System	
Intelligent Voice Communication system	6821

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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 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.

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