SIEMENS

Fire Safety

Model DCT-1E

Five Channel Digital Communicator

ENGINEER AND ARCHITECT SPECIFICATIONS

- 864 Listed. Meets NFPA 72 Chapter 4, for Central Station/Remote Station Monitoring
- Listed as a Slave Communicator for Connection to System 3™, SXL-EX®, PXL®, MXL, FS-100, and FireFinder XLS Fire Alarm Control Panels
- Five Fully Supervised Input Channels (contact or open collector)
- Dual Phone Line Interface and Line Fault Monitoring
- Automatic 24 Hour Test
- Reports in Contact ID, SIA and 4/2 Communication Formats
- 100 Event History Buffer
- Local Keypad Programmer (DCT-P)
- Form "C" Relay Output for Trouble Conditions
- LEDs for Heartbeat, System Trouble, and Phone Line Troubles
- Complete with enclosure
- UL Listed

Description & Feature

Siemens Building Technologies, Inc., Fire Safety Division offers the Model DCT-1E five channel, dual line digital alarm communication transmitter. This communicator is designed to monitor UL listed fire alarm control panels. Power from these fire alarm control panels drive the DCT-1E. Programming and troubleshooting time is minimized by user-friendly English language messages available with the Model DCT-P local programmer.

Channel Inputs

Five supervised, or unsupervised, channel inputs can be configured as open collector inputs or contact closure inputs. The System 3™, using the CSI-35 module, provides a combination of contact closures and active high voltage input to activate the DCT-1E. The FireFinder XLS, MXL, SXL-EX and PXL use a contact closure for each channel.

Each input can be programmed as Fire Alarm, Waterflow Alarm, Supervisory, Monitor Alarm, System Fault, AC Failure or Low Battery. All inputs are non-latching, and will return to their normal state when the input is deactivated.

Phone Line Monitors

The phone line circuits detect phone line faults by monitoring their voltages. Each line is monitored every 12 seconds. If a trouble condition persists through three monitor cycles (36 seconds), the DCT-1E sends a trouble report to the central station, turns on the yellow phone line LED and operates the System Trouble Relay. To ensure phone line accessibility the DCT-1E is equipped with line seizure.

Test Functions

After power-up, DCT-1E performs a system status self test. A watchdog circuit on the microprocessor resets the communicator if a failure occurs. Additionally, a 24- hour auto test can be programmed to a central station at a precise time. The auto test will automatically alternate between the two phone lines to ensure proper operation. The installer can also initiate a manual test using the DCT-P programmer.

Programming

The Model DCT-P LCD keypad programmer can be temporarily connected to program or troubleshoot the communicator on site. It has a two line 16-character display to provide information on various programming functions. It is used to put account information, phone numbers, line configurations, input configurations, and system configurations into the DCT-1E. It can also be used for manual tests, viewing history, troubleshooting, and resetting the DCT-1E.

AC Monitoring

All Fire Safety Fire Alarm Control Panels, as well as the DCT-1E communicator, can be programmed to delay transmission of this signal to a central station or remote station as required by Underwriters' Laboratories. The System 3™ transmits this signal via an active high output from the Model CSI-35 central station interface.

Technical Specification

Electrical:
Input — 24 VDC from UL listed fire control panel.

Maximum DC Load:
Standby — 150mA Alarm — 190mA

AC Monitoring Input:
AC trouble output from System 3TM CSI-35 module or relay programmed as AC Fail on FireFinder XLS or MXL

Relay Output:
Form C, rated 1A 30VDC Trouble

Indicator Lights:
Green LED for System Heartbeat; two (2) yellow LEDs for phone line status(flashing during communication, steady during trouble), one yellow LED for System Status

Connection:
Color-coded flying leads for all power, input, and output connections; plug-in connection point for DCT-P programmer.

Reporting Formats:
Communicates via SIA 110, SIA 300, Contact ID and 4/2 formats

Telephone Requirements:
FCC registration Number ESVMUL-46514-AL-E

Type of Jack - RJ31X (two required)

Approvals:
UL 864 listed by Siemens Fire Safety for use with FireFinder XLS, SXL-EX, MXL, PXL and System 3™/CSI-35 UL 864 listed; NYMEA and CSFM approved by DSI for Central Station/Remote Station Monitoring

Mechanical Specifications

Model DCT-1E

Dimensions:	7 ¾ H x 5 ¼ W x 2 ½ Deep
Enclosure:	Sheet Metal Cabinet
Color:	Red
Weight:	2 Lb.

Model DCT-P Programmer/Annunciator with harness

Dimensions:	4 ½ H x 6 W x 1 ¼ Deep
Weight:	Less Than 1 Lb.

Ordering Information

Model Number	Description	Part Number
DCT-1E	5 Channel Dialer w/Enclosure	500-699290
DCT-P	Programmer for DCT-1 dialer	500-699291

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