

Models DC-100 & DC-101 Fire Alarm Communicators

Features

- UL 864 listed for NFPA 72
- UL listed as slave communicator for connection to compatible UL listed 24VDC local fire alarm control panels
- Four fully supervised input channels
- Remote programming (up/downloading)
- Dual phone line interface & line fault monitors
- Automatic 24 hour test
- Reports in most major communication formats
- Compact size, DC-100 housed in 8-5/8" (L) x 3-3/8" (W) x 1-3/8" (D) enclosure for mounting inside control panel. Model DC-101 housed in 10" x 10" metal enclosure
- Programmable as rotary-only or as TouchTone/ rotary dialing
- Built-in dual phone line-seizure circuit
- Transient voltage protection of phone lines
- One relay output, programmable for alarm or trouble conditions
- Fuseless design, 24VDC
- Built-in watchdog circuit
- Active high or dry contact closure input
- Made in the USA

Description

The Faraday DC-100/101 is a four channel "slave" digital communicator designed to monitor UL listed local fire alarm systems. The DC-100/101 is a cost effective answer to most fire communicator applications and is easy to install and service.

Telephone Interface

The DC-101 monitors and reports via two separate phone lines. Built-in line fault monitors and a ring detector are provided.

AC Monitoring

An electrically isolated AC monitoring input is provided. The input monitors the main power input of the local fire control panel. The DC-100/101 can be programmed to report AC trouble immediately or report can be delayed from 6 to 12 hours.

Power Input

The DC-101 communicator has been designed to be powered from a UL listed 24VDC fire alarm control panel.

Channel Inputs

The DC-101 communicator has four channel inputs. The installer can configure the inputs as either a



DC-101 Top
DC-100 Bottom

voltage input, active high or low, or a contact closure input. The inputs can be wired as either supervised or nonsupervised.

The DC-100/DC-101 features four fully supervised channel (zone) inputs. They can be programmed to accept contact closure or active high voltage input.

- Channel 1 (Zone 1): Fire Alarm
- Channel 2 (Zone 2): Fire Trouble
- Channel 3 (Zone 3): Sprinkler Supervisory
- Channel 4 (Zone 4): Undefined Alarm

Audible Alarm

An on-board non-silencing audible alarm is provided.

Programming/Downloading

The unit is programmable with a RKP-100 fire annunciator. There is a connector for temporary connection of RKP100 for programming, but not for permanent installation.

Downloading will allow remote programming, interrogation of current status and the ability to change the 24 hour test time. A ring detector for one-call downloading is provided. PC, optional RDS-100 software and optional RDM-100 modem required.

Test Functions

The DC-100/101 communicator incorporates a watchdog circuit on the microprocessor. A power-up self-test will check the system. A 24 hour auto dialer test can be programmed to a precise time so installers can send the test to the central station at a time of their choosing.

Electrical Specifications

Input

18 - 40VDC from a UL Listed Fire Control Panel

Current Draw, Standby at 18VDC

120mA max. with annunciator attached
70mA max. without annunciator

Current Draw, Alarm at 18VDC

300mA max. with annunciator attached
180mA max. without annunciator

AC Rating

45mA max.

Form "C" Contact Ratings

1 A, 24VDC/24VAC

FCC Registration No.

AC6USA-75160-AL-E

Ringer Equivalence

0.1 B

Type of Jack

RJ31 X (2 required)

Indicator Lights (4 LEDs)

Green LED (1) DC power
Red LED (2) for phone line 1 & 2 trouble
Yellow LED (1) for faulted input and system trouble indication

DC-100/DC-101 Compatible Receivers

Receiver

Silent Knight: Model 9000

Formats

BFSK14, BFSK23,
FSK, SK 3/1, SK 4+2
SIA8, SIA20

Osborn & Hoffman: Quickalert

BFSK14, BFSK23,
SK 3/1, SK 4+2
SIA8, SIA20

Ademco: 685

SK 3/1, SK 4+2

FBI: CP220

SK 3/1, SK 4+2

Radionics: D6500

BFSK14, BFSK23

DC-100 Requirements

Must be mounted within a UL listed compatible fire control panel.

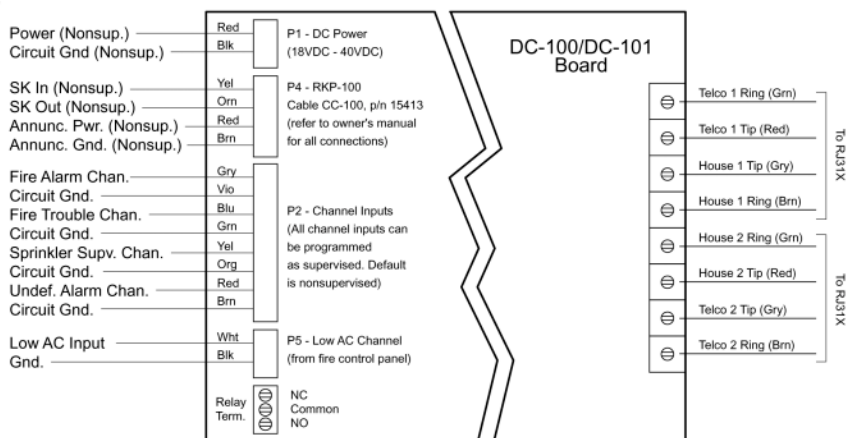
DC-101 Requirements

The DC-101 and the UL listed fire control panel must be installed in the same room. All wiring between the DC-101 and fire panel must be enclosed in conduit for not more than 20 feet.

Ordering Information

Model	Description	Part No.
15128	Four zone/channel communicator, less box	500-648107FA
15129	Four zone/channel communicator, in box	500-648309FA
15403	Programmer for DC-100/DC-101	500-649309FA
15413	Programmer cable assembly	555-15413

Wiring



Siemens Building Technologies, Inc.
8 Fernwood Road • Florham Park, NJ 07932
Tel: (973) 593-2600 • Fax: (973) 593-6670
Web: www.faradayfirealarms.com

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