

Specifications

Features

- Three-zone Digital Alarm Communicator Transmitter
- UL Listed for NFPA 72 applications as a control unit or control unit subassembly for digital fire signaling systems
- Can be used as a stand-alone control/communicator for sprinkler systems or as a slave communicator for existing fire alarm systems
- UL Listed as power-limited
- Optional Phone Line Trouble Relay for connection to an external annunciation device
- Optional Alarm Relay for annunciation of Zone 1 Alarm Initiating Circuit
- Dual telephone lines for Central Station reporting
- Primary and alternate telephone numbers
- Built-in phone line trouble LED and buzzer
- Compact and easy to install
- Communicates using BFSK or pulsed single-round fast format (accepts 2300 Hz acknowledgment tone)
- Automatic test reports every 24 hours
- Simple programming with D5100 and D5200 Programmers
- Programmable Retard and Reset for waterflow switches
- Battery lead supervision

Description

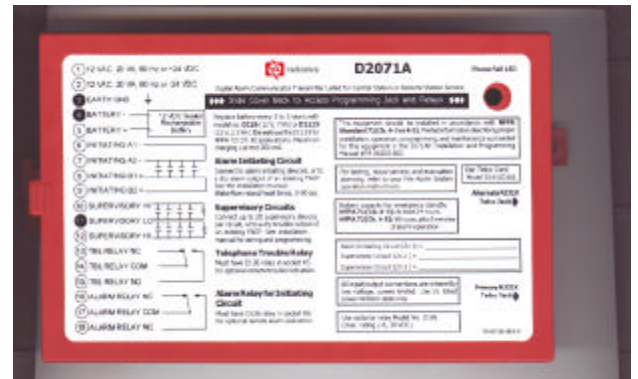
Radionics' D2071A Fire Control/Communicator is a three-zone digital alarm communicator transmitter (DACT). The D2071A can be used in limited stand-alone applications, or in slave applications for off-premises monitoring of an existing Fire Alarm Control Panel (FACP).

Two separate relay sockets are provided so that optional Radionics D136 relays can be installed. These relays provide outputs for Phone Line Trouble and Alarm Initiating Circuit annunciation devices.

Two modular phone jacks on the D2071A provide connections for two separate telephone lines using RJ31X or RJ38X jacks. Both telephone lines are supervised. If one of the phone lines is operational and the other is in trouble, a report is sent to the receiver.

A yellow LED provides a visual indication of trouble conditions on either telephone line. The LED can be viewed through the hole in the cover of the D2071A.

A buzzer provides an audible indication of phone line trouble. The buzzer, LED and the optional relay all follow the phone line trouble. The buzzer automatically silences when a phone trouble signal is communicated to the receiver.



D2071A Fire Control/Communicator

Application

Radionics' D2071A is a three-zone digital alarm communicator transmitter (DACT). It uses two phone lines to transmit to the receiver. A Phone Fail LED and buzzer annunciate phone line failures.

Zone 1 is a four-wire, Class A (NFPA Style D) Alarm Initiating Circuit. In a stand-alone application, this zone can be used to monitor up to five waterflow alarm switches, or up to 100 mechanically operated devices, such as heat detectors and manual pull stations. In a slave application, this zone can be used to monitor an alarm output on an existing FACP.

Zones 2 and 3 are Class B (NFPA Style A) Supervisory Circuits. Each circuit can be used to monitor up to 20 sprinkler supervision devices in a stand-alone application, or can be used to monitor a trouble output on an existing FACP in a slave application.

The D2071A is UL Listed for NFPA Standard 72 (Chapters 4-3 and 4-5).

Installation

The control is mounted in a red, plastic, nonconductive housing. The D2071A's small size allows it to be installed in economical, fire-approved enclosures for stand-alone installations. The D2071A has a sliding cover that can be opened to expose the terminal strip, programming jack and two relay sockets.

Install, test and maintain this device according to its Installation Guide, NFPA 72, Local Codes and the Authority Having Jurisdiction. Failure to follow these procedures may result in failure of the device to operate properly. Radionics is not responsible for devices that are improperly installed, tested and maintained.

Specifications

D2071A Specifications	
Power Input	12 VAC, 20 VA w/ 12 VDC battery, or 24 VDC from existing FACP
Minimum Panel Voltage	8.5 VDC
Operating Current (Idle)	29.5 mA (12 VAC Mode); 30.0 mA (24 VDC Mode)
Operating Current (Max)	157.6 mA (12 VAC Mode); 166.8 mA (24 VDC Mode)
Maximum Battery Size (Use only in 12 VAC Mode)	7 Ah(refer to NFPA 72 for required standby time)
Zone 1 Response Time	0.2 to 90 sec., depending on Retard/Reset time
Zone 2 Response Time	Approximately 2 to 4 sec.
Phone Voltage and Current	10 VDC, 10 ma (min); 48 to 52 VDC (normal)
Operating Temperature	+32°F to +120°F (0°C to +50°C)
Wire Specifications	Refer to Article 760 of NEC, NFPA 70
Color	Red
Dimensions* (L x W)	7.8 in. x 4.4 in. (20 cm x 11.2 cm)
Material	Non-conductive plastic (ABS UL94V- O)

* Dimensions include mounting tabs

Listings and Approvals

- Underwriters Laboratories
- CSFM
- MEA
- FM

Ordering Information

Model	Description
D2071AC DACT	Fire Control/Communicator (the complete kit includes phone cords and a version of the D4103R enclosure with a hard-wired transformer installed in it. You need only order a battery to complete the installation)
D2071A DACT	Fire Control/Communicator (Panel only. Select from the accessories below to complete the installation)
D136	Optional relay. K5 enables Phone Line Trouble Relay; K6 enables Initiating Circuit Alarm Relay
D161* or D162	Phone cords for primary and D162 alternate phone line connections
D1220	Transformer (12 VAC only)
D4103R* or D8109	Or other UL Listed fire enclosure
D5100	Hand-held Programmer
D5200	Hand-held Programmer
D2002	Mounting Plate* to mount the D2071A in a D4103R enclosure
D8004	Transformer Enclosure required for the D1220 transformer in commercial fire applications if D2071AC kit is not used

* Included in the D2071AC kit. D4103R in D2071AC kit includes hard-wired transformer.

