Features

- Three-zone Digital Alarm Communicator Transmitter (DACT)
- UL listed for NFPA 72, Chapter 8 applications as a control unit or control unit sub-assembly 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 the D5200 Programmer
- Programmable Retard and Reset for waterflow switches
- Battery lead supervision

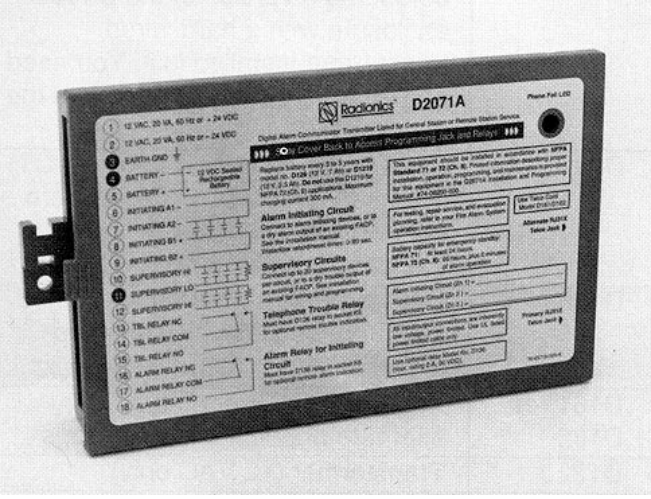
Description

The 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).

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 (Ch 4-3 and 4-5).



Housing

The control is mounted in a red, plastic, non-conductive 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 which can be opened to expose the terminal strip, programming jack, and two relay sockets.

Optional Relays

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.

Phone Line Connections

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.

Phone Line Trouble LED

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.

Phone Trouble Buzzer

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.

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Ordering Information

Model	Description
D2071AC	Fire Control/Communicator (DACT)
	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	Fire Control/Communicator (DACT) This is the 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 alternate phone line connections
D1220	Transformer (12 VAC only)
D4103R* or D8109	Or other UL listed fire enclosure
D2002	Mounting Plate* to mount the D2071A in a D4103R enclosure
D5050	Programmer for D2071A
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.

Listings and Approvals

- UL listed
- CSFM and NYC-MEA approved
- FM pending

Operational Data

The unit 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 Class A (NFPA Style D) Alarm Initiating Circuit. In stand-alone applications, Zone 1 can monitor up to five waterflow alarm switches, or up to 100 mechanically operated devices. In slave applications, Zone 1 can monitor an alarm output on an existing FACP.

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

Dimensions

7.8" L x 4.4" H x 1.1" D

Electrical Specifications

Power Input

12 VAC, 20 VA with 12 VDC battery, or
24 VDC from existing fire alarm control panel

Minimum Panel Voltage: 8.5 VDC

Operating Current

Idle Current 29.5 mA (12 VAC Mode)
30.0 mA (24 VDC Mode)
Max Current 157.6 mA (12 VAC Mode)
166.8 mA (24 VDC Mode)

Batteries

(Use only in 12 VAC Mode) Battery capacity for emergency standby: NFPA 72 (Ch 4-3): at least 24 hours. NFPA 72 (Ch 4-5): 60 hours, plus 5 minutes of alarm operation.

Response Time

Zone 1 0.2 to 90 seconds, depending on Retard/Reset time.
Zone 2 Approx. 2 - 4 seconds

Phone Voltage and Current

Minimum: 10 VDC, 10 mA Normal: 48 - 52 VDC

Operating Temperature

32° - 120° F (0° - 73° C)

Wire Specifications

Refer to Article 760 of NEC, NFPA 70

Color Red

Size 7.8" x 4.4" including mounting tabs

Material Non-conductive plastic (ABS UL94V-O)

Wiring Information

Stand-Alone Applications

Connect the normally-open contact of waterflow switches (maximum of 5), or mechanically activated initiating devices in parallel to Zone 1. Connect normally open supervisory devices in parallel to Zones 2 and/or 3.

Slave Communicator Applications

Connect Zone 1 to a common alarm output (normally-open, dry closure) on the FACP. Connect terminals 6 and 7 to the normally-open contact, and terminals 8 and 9 to the common contact. Retard Time and Reset Time must be programmed for 0 seconds when connecting the Alarm Initiating Circuit to an existing control panel. Connect FACP common trouble outputs to Zones 2 and /or 3.

Specifications

The contractor shall furnish and install, where indicated on the plans, Digital Alarm Communicator Transmitters (DACTs) Model D2071A. The DACT shall be installed in an approved enclosure.

Radionics™

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