

D9068 Fire Digital Alarm Communicator Transmitter (DACT)



Fire Systems



- 12 VDC or 24 VDC operation
- Supports multiple reporting formats
- Five user-programmable input points (Class B, Style B)
- 100-event history buffer
- Dual phone line interface
- Program using the D7033 LCD Remote Keypad
- Onboard Form C trouble relay
- LEDs for Heartbeat, System Trouble and Phone Line Trouble (one per line)
- Real-time clock

The D9068 Fire Communicator is a complete digital alarm communicator transmitter (DACT) for use with compatible fire alarm control panels (FACPs). Use dry contacts or open collector outputs for alarms and communications with the D9068.

Functions

Five Input Points

The D9068 supports five inputs that can be activated by dry contact relays or open collector outputs. Each of these inputs can be configured for one of seven types of conditions: Fire Alarm, Waterflow Alarm, Supervisory, Monitor Alarm, System Fault, AC Failure and Low Battery.

System Supervision

The D9068 is supervised with a hardware watchdog circuit. Failure of the control program results in a hardware reset within two seconds. The onboard trouble relay releases for the duration of the reset (the relay is normally held energized). The D9068's EEPROM memory, input points, and phone lines are automatically tested periodically. The EEPROM checksum is verified every 10 minutes. If the EEPROM checksum fails, a trouble condition is locally annunciated and a trouble report sent.

Serial Data Input Dialing

The D9068 connects through the D9052 serial module to the D10024, D10024A, D9024, and D8024 analog FACPs, and transmits by point in all available formats.

User Interface

A D7033 Liquid-Crystal Display (LCD) Remote Keypad connects to a five-pin connector (option bus interface) and is used to program and troubleshoot the D9068.

Reporting Formats

The D9068 supports five reporting formats: Modem IIIa², Contact ID, SIA110, SIA300, and 4/2.

Report Routing

There are six different report groups that can be routed to one of four phone settings. These report groups consist of non-supervisory alarms, supervisory alarms, alarm restorals, resets, supervisory restorals, tests and troubles, and trouble restorals.

Reset Report

A reset report is sent when the D9068 resets from any off-normal condition.

Phone Line Selection

The D9068 follows a predetermined sequence to select between the phone lines. It also implements the new NFPA requirements for alternation of phone lines during test reporting. The D9068 maintains a variable that selects either Phone Line 1 or Phone Line 2 for automatic test reports. After each successful test report, the variable switches to select the other phone line.

Communication Failed Indication

The D9068 indicates a communication failure after ten attempts to communicate are completed without success. This causes the trouble output to activate and report the fault.

History Buffer

The D9068 has a history buffer that retains up to 100 events. Each event is tagged with the date and time of occurrence. This buffer can be viewed when a D7033 LCD Remote Keypad is connected to the D9068. When the buffer is full, old events are discarded to make room for new events.

Lightning Suppression

MOVs and spark gaps suppress lightning surges and static discharges for inputs and telephone interface.

Parts included

Quant.	Component
1	D9068 board
1	Metal enclosure (red)
1	Hardware pack
4	Cable assembly sets
2	RJ45 telco cable assembly sets
1	Ground wire
5	2.21 kΩ EOL resistors (P/N: 25899)

Certifications and Approvals

Listings and Approvals:	UL UOXX: Control Unit Accessories, System (UL864) CSFM 7300-0801: 214 NYC/MEA (26-02-E, Vol. II)
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Planning

Compatible Products

The following products are compatible with the D9068 Fire DACT:

Category	Product ID	Product Description
Control Panels	D7022	Conventional FACP
	D8024	Analog FACP
	D9024	Analog FACP
	D10024	Analog FACP
	D10024A	Analog FACP
Keypads and Annunciators	D7033	LCD keypad
Modules	D9052	Serial interface module

Technical Specifications

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Enclosure Design

Dimensions (HxWxD):	7.75 in. x 5.1 in. x 2.5 in. (19.7 cm x 13.1 cm x 6.4 cm)
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Weight:	3.1 lb (1.4 kg)
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Environmental Considerations

Temperature (operating):	+32°F to +120°F (0°C to +49°C)
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Outputs

Trouble Relay:	One Form C relay onboard
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Relay Rating:	1A at 30 VDC
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Power Requirements (use power-limited source)

Current (alarm):	190 mA maximum
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Current (standby):	150 mA maximum
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Ordering Information

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For more information please visit
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