Multi-Application Peripherals and Accessories

Remote Station Devices

ULC Listed
FM Approved

Digital Alarm Communicating Transmitter Serial Communications Module (SDACT)

FEATURES

- **UL 864 listed per NFPA 72 for Central Station Service**
  - Listed to UL 1459
  - Registered to FCC Part 68
- **Dual telephone line interface**
- **Mounts internally to Simplex models:**
  - 4010, 4020, 4100, and 4120 Network Fire Alarm Control Panels
  - 4120 Network Processing Unit (NPU)
- **Provides specific, per point information*:**
  - Communicates point status changes, phone line status, and other off-normal information
  - Reports up to ten events per phone call
- **Provides programmable:**
  - Automatic 24 hour test
  - Power fail report delay
- **SDACT status indicators:**
  - Panel LCD indicates off-normal status
  - Module LEDs provide service diagnostics
- **Operates with Simplex expanded interface software version 8**

SPECIFICATIONS

Model Identification.. 4020/4100/4120-0155, 4010-9816
Voltage.....18-32 VDC, from Panel
Standby Current..... 30 mA
Alarm Current (Communicating) ..... 40 mA
SDACT Point Capacity 4000*
Operating Temperature.....32° F to 120° F (0° C to 49° C)
Operating Humidity.....10-90% RH @ 85° F (30° C)

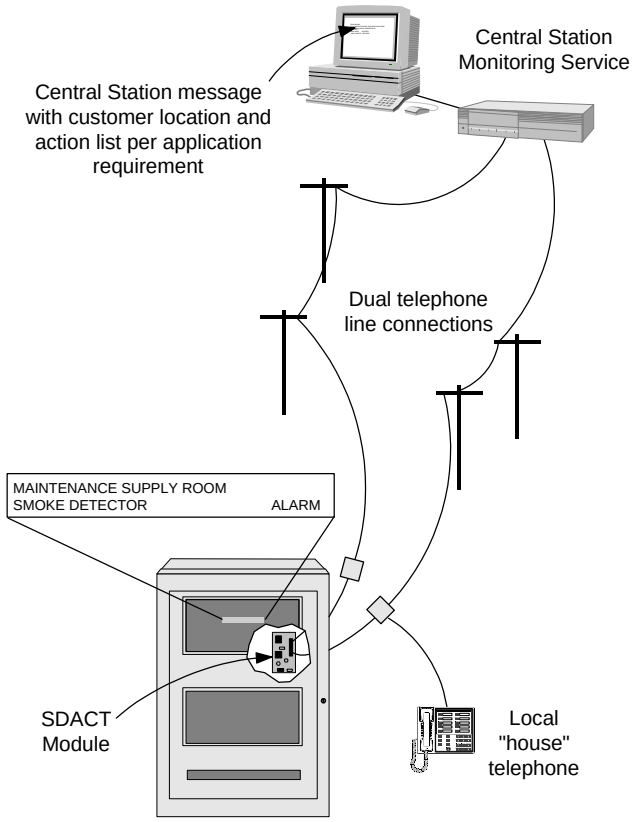
Telephone Requirements

FCC Registration # 5QWUSA-30334-AL-E
Jack ..... RJ31X (2 Required)
Connection Type .....Loop Start, Pulse or Tone Dialing

Compatible Simplex DACT Cables with Plug
(2 required, select length as needed)

2080-9046.....7 ft long (2134 mm)
2080-9047.....14 ft long (4267 mm)

* Note: Information received is determined by capability of the digital alarm communicating receiver (DACR) and communication format used.



SDACT Application Diagram

DESCRIPTION

The Simplex serial digital alarm communicating transmitter (SDACT) monitors the status of the host fire alarm control panel and its connections to the Central Station monitoring location. When status changes require information to be reported, the SDACT can provide a per point message that can assist the Central Station in more accurately implementing the required response. Typical information reports would include alarms, troubles, and supervisory conditions with specific point identification.

The SDACT module directly communicates with the fire alarm control panel CPU and is custom programmed for the specific requirements of the Central Station and the connected fire alarm control panel.

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AVAILABLE REPORTING FORMATS

Contact ID (CID). CID is the preferred format for SDACT operation. It provides a four digit account code followed by a three digit event code, a two (hex) digit group number, and a three (hex) digit contact number, all of which are used to encode specific point identification.

3/1 Pulse. A three digit account code followed by a one digit reporting code. Transmissions are sent as a double round at a rate of 20 PPS (pulses per second). Reporting codes are programmable.

4/2 Pulse. Similar to 3/1 except for a four digit account code and a two digit reporting code. Transmission is sent as a double round at 20 PPS. Report codes are programmable.

BFSK. Three digits of account code and two digits of reporting code in a single transmission of constant tones. The format has built-in error checking so that a double round is not required. Reporting codes are fixed.

SIA. Security Industry Association (SIA) Digital Communication Standard. The SDACT provides level 1 compatibility which includes tonal acknowledge, basic reports only, and fixed reporting codes.

SDACT UL Listed Compatibility

	Receiver/Service (✔ = Available)						
Communication Format	**Simplex Central Station Services**	**FBI CP220FB (notes 2 & 3)**	**Osborne/ Hoffman QuickAlert Model II**	**ADEMCO 685 (notes 1 & 3)**	**SUR-GARD MLR2-DG**	**Radionics 6500**	**Silent Knight 9000**
Contact ID (Preferred)	✔	✔	✔	✔	✔		
3/1 Standard 1800/2300 Hz 10 and 20 PPS	✔	✔	✔	✔	✔	✔	✔ With 9032 Line Card
3/1 Standard 1900/1400 Hz 10 and 20 PPS	✔	✔	✔	✔	✔	✔	✔ With 9032 Line Card
4/2 Standard 1800/2300 Hz 10 and 20 PPS	✔	✔	✔	✔	✔	✔	✔ With 9032 Line Card
4/2 Standard 1900/1400 Hz 10 and 20 PPS	✔	✔	✔	✔	✔	✔	✔ With 9032 Line Card
Radionics BFSK 1800/2300 Hz	✔	✔	✔	✔	✔	✔	✔ With 9032 Line Card
Radionics BFSK 1900/1400 Hz	✔	✔	✔	✔	✔	✔	✔ With 9032 Line Card
SIA			✔		✔		✔ With 9004 Line Card

NOTES:

1. With 658-8 Line Card.
2. With Rec-11 Line Card.
3. These receivers are also Factory Mutual (FM) approved.

Simplex

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All specifications and other information shown were current as of printing and are subject to change without notice.