



Reviewed for Code Compliance  
Inspections Division  
Approved with Conditions

# 411 Series

## Slave Digital Alarm Communicator Transmitters



Control/

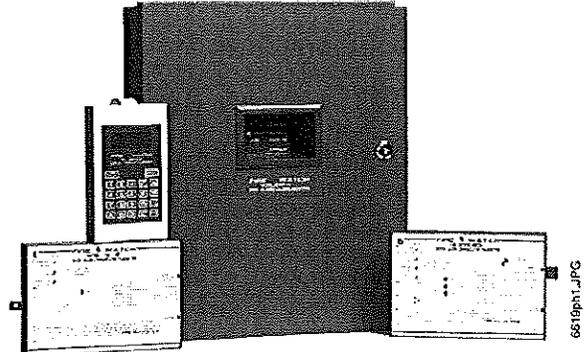
Date: 07/13/14

### General

The Fire•Watch 411 Series DACTs are compact, multifaceted, slave Digital Alarm Communicator Transmitters designed for a variety of fire, security, and non-fire applications. The series features the 411 and 411UD, which provide three and four monitoring channels (Inputs) respectively. These slave DACTs are a solution for applications that require an existing (or new) fire alarm control panel (FACP) to transmit system status to an off-site monitoring facility for Central or Remote Station compliance. Due to extremely flexible programming options, the 411 Series slave DACTs are also ideal for monitoring non-fire and security control panels. With fifteen selectable transmission formats (including ADEMCO Contact ID) compatibility with virtually all Digital Alarm Communicator Receivers (DACR) is ensured. Programming can be accomplished on-site with a hand-held programmer (PRO-411), or remotely (411UD only) using the PK-411UD programming utility. This Windows®-based remote upload/download software package permits system interrogation and revision from a remote site.

### Features

- Three (411) or four (411UD) monitoring channels (Inputs).
- Inputs may be individually programmed to monitor the host control panel for:
  - Fire Alarm.
  - Fire Trouble.
  - Fire Supervisory.
  - Process Monitoring.
  - AC Power Loss.
  - Security Alarm.
  - Other (Fire and Non-Fire Events).
- Fully supervised trigger inputs require a contact closure for activation.
- 12- or 24-VDC operation, Jumper-selectable.
- Industry-first, UL recognized, "dialer-runaway" prevention feature.
- Dual-line, rotary or touch-tone-dial DACT interfaces to public switched telephone network (leased phone lines are not required).
- Includes 15 reporting formats, including the popular ADEMCO Contact ID format.
- Capable of transmitting the following DACT Information, in addition to vital system status of the host control panel:
  - DACT troubles.
  - Telephone line 1 and 2 voltage fault.
  - Primary or Secondary Central Station communication fault.
  - System off-normal.
  - 24-hour normal test.
  - 24-hour abnormal test.
- Long-distance Carrier Access Code (CAC) compliant, accepting up to 20-digit Central Station telephone numbers.
- Fully programmable transmittal codes for fire, security, process monitoring, and others.
- Field-programmable with PRO-411 hand-held programmer.



- Programmable from remote site with optional PK-411UD programming software (model 411UD only).
- View 411 Series status offsite in real time, with optional PK-411UD programming software, without ever compromising protection at the protected premises (model 411UD only).
- Programming sequence based on Fire•Lite's popular Fire•Watch 5000 Series Control/Communicators (MS-5012, MS-5024, MS-5024UD, MS-5210UD).
- Integral piezo sounder (both models) with local silence switch (model 411UD only).
- One Form-C relay, fully programmable (model 411UD only).
- Complies with NFPA 72 (Central Station and Remote Station [DACT only - not polarity reversal] Fire Alarm Systems).
- Surface Mount Technology (SMT).
- Extremely compact enclosure, measuring only 6.75" (17.145 cm) W x 4.40" (11.176 cm) H x 1.05" (2.667 cm) D.
- Shares identical footprint with 911 Series for replacement purposes.

### Host Panel Compatibility

Host panels must include AC Fail Delay option to meet NFPA Central Station Requirements. Panels with this feature include MRP-2001, MRP-2002, MS-2, and MS-4.

### Housing

The 411 Series DACTs are fully enclosed in a compact housing measuring only 6.75" (17.145 cm) W x 4.40" (11.176 cm) H x 1.05" (2.667 cm) D. The housing enclosure consists of an aluminum backbox painted red with a matching cover secured by two captive screws. The cover includes a metallic overlay, providing a similar look to Fire•Lite's popular and well-recognized 911 Series. The overlay includes large areas to independently mark programming options for the three or four channels (inputs), relay, and also includes printed terminal and diagnostic LED designations. The overall compact size of the enclosure permits mounting of these DACTs in virtually any control panel's enclosure, or alternately, adjacent to the host control panel.



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## Phone Line Connections

Two modular phone connections on the 411 Series are accessible with the cover in place and provide connections for two separate telephone lines using standard RJ31X or RJ38X jacks. Both telephone lines are constantly supervised for proper operation and Integrity. If one phone line goes into fault while the other is working, a report is sent to the central or remote station.

## Diagnostic LEDs

- Communication Fail (visible with front cover in place).
- DACT Trouble (visible with front cover in place) (411UD).
- Channel Active (visible with front cover in place) (411UD).
- Primary Phone Line Active (411UD).
- Secondary Phone Line Active (411UD).
- Modem Active (411UD).

## Specifications — 411UD

### Listings and Approvals:

- NFPA 72: Central Station Fire Alarm Systems.
- NFPA 72: Remote Station Fire Alarm Systems.
- UL Standard 1635: Digital Alarm Communicator/Transmitters.
- UL Standard 864: Control Units for Fire Alarm Systems.

**FCC Registration:** OAAUSA-25431-AL-E. Ringer Equivalence: 0.5 B.

**For Canadian Applications:** IC Certificate Number: 2132 9028 A. Ringer Equivalence Number (REN): 0.2.

**Programming:** A digital programming unit with a keypad, model PRO-411, is available for programming the 411 Series.

**Operating Power:** The 411UD circuit board operates on filtered 12 VDC. The configuration of Jumper J4 determines whether 12 VDC power is to be supplied directly to the circuit board, or 24 VDC power is to be supplied and then internally regulated down to 12 VDC.

### DC Power:

- J4 Jumper REMOVED: Filtered, nonresettable and power-limited 24 VDC (nominal) power must be supplied at TB1 Terminals 7(+) and 8(-). Current requirements are 100 mA in standby and 170 mA\* while communicating.
- J4 Jumper INSTALLED: Filtered, nonresettable and power-limited 12 VDC (nominal) power must be supplied at TB1 Terminals 7(+) and 8(-). Current requirements are 100 mA in standby and 170 mA\* while communicating.

**\*NOTE:** A maximum of 300 mA is possible with all channels active, the 411UD communicating, the PRO-411 connected, and Lamp Test active.

### Channels/Inputs:\*\*

- Programmable Channels 1 through 4.
- Power-limited circuitry.
- Fully supervised.
- Operation: All channels NFPA Style B (Class B). Requires Normally Open contact to trigger.
- Normal operating voltage: 12 VDC.
- Alarm current: 3.34 mA.
- End-of-line resistor: 2.2K ohms.
- Short-circuit current: 3.8 mA per channel/input.

**\*\*NOTE:** Channels/inputs do NOT support two-wire smoke detectors.

### Form-C Relay:

- Contact rating: 2.0 amps @ 30 VDC (re

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**For Canadian Applications:** IC Certificate Number: 2132 9028 A. Ringer Equivalence Number (REN): 0.2.

**Programming:** A digital programming unit with a keypad, model PRO-411, is available for programming the 411 Series.

**Operating Power:** The 411 may be powered from UL-listed control panels that output nonresettable and power-limited 12 or 24 VDC power. The configuration of Jumper J4 determines whether 12 VDC power is to be supplied directly to the 411 circuit board, or 24 VDC power is to be supplied and then internally regulated down to 12 VDC.

**DC Power:** TB1 Terminals 1(+) and 2(-); Terminal 3 is Earth Ground.

- J4 Jumper removed: Filtered, nonresettable, and power-limited 24 VDC (nominal) power must be supplied at TB1 Terminals 1(+) and 2(-). Operating voltage provided must be within 21.3 to 24.0 VDC (UL tested range: -15%, +10%). Current requirements are 78 mA in standby and 126 mA<sup>†</sup> while communicating.
- J4 Jumper installed: Filtered, nonresettable, and power-limited 12 VDC (nominal) power must be supplied at TB1 Terminals 1(+) and 2(-). Operating voltage must be within 11.2 to 12.4 VDC (UL tested range: -15%, +10%). Current requirements are 78 mA in standby and 126 mA<sup>†</sup> while communicating.

**†NOTE:** A maximum of 240 mA is possible with all input channels active, the 411 communicating, the Programmer connected, and Lamp Test active.

### Channels/Inputs<sup>‡</sup> — TB2 Terminals 1 through 6:

- Programmable Channels 1 through 3.
- Power-limited circuitry.
- Fully supervised.
- Operation: All channels NFPA Style B (Class B). Requires Normally Open contact to trigger.
- Normal operating voltage: 12 VDC.
- Maximum line resistance: 100 ohms per channel.
- Alarm current: 3.34 mA.
- End-of-line resistor: 2.2K ohms, 1/2 watt (P/N 27070).
- Short circuit current: 3.8 mA per channel/input.

**‡NOTE:** Channels/inputs do NOT support two-wire smoke detectors.

## Agency Listings and Approvals

These listings and approvals apply to the modules specified in this document. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL Listed:** S2424.
- **ULC Listed:** S2424.
- **MEA Listed:** 328-94-E Vol. III (411UD); 328-94-E Vol. IV (411).
- **CSFM:** 7300-0075:0174.

## Product Line Information

**411:** Three-channel, dual-line, slave Digital Alarm Communicator Transmitter. Includes housing, operating and program-



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ming instructions. Requires PRO-411 hand-held DACT programmer for local programming.

**411UD:** Same as above with four input channels, Form-C programmable relay, silence switch and remote upload/download capability. Requires PRO-411 hand-held DACT programmer for local programming or PK-411UD Windows-based programming software for remote programming and real-time diagnostics.

**PRO-411:** Hand-held programmer for lo 411 Series DACTs.

**PK-411UD:** 411UD programming software

**PK-CD:** Remote upload/download, Windows programming software kit (for use with 411UD)

**MCBL-7:** DACT phone cord, seven feet lo

**NOTE:** For information about 411UDAC, see Date: 07/13/14

### Compatible UL-Listed Receivers

	Format # (addresses 16 & 42)	Ademco 685 (1)	Silent Knight 9000	ITI CS4000 (3)	FBI CP220FB	Osborn Hoffman Models 1& 2	Radiovonic 6000/6500 (5)	Sescoa 3000R (7)	SurGuard MLR-2 (9)
0	4+1 Ademco Express				✓				✓
1	4+2 Ademco Express	✓			✓	✓(8)		✓	✓
2	3+1/Standard/1800/2300	✓	✓(2)	✓	✓(4)	✓	✓(5, 6)	✓	✓
3	3+1/Expanded/1800/2300	✓	✓(2)	✓	✓(4)	✓		✓	✓
4	3+1/Standard/1900/1400	✓	✓(2)		✓(4)	✓		✓	✓
5	3+1/Expanded/1900/1400	✓	✓(2)		✓(4)	✓		✓	✓
6	4+1/Standard/1800/2300	✓	✓(2)	✓	✓(4)	✓	✓(5)	✓	
7	4+1/Expanded/1800/2300	✓	✓(2)		✓(4)	✓		✓	✓
8	4+1/Standard/1900/1400	✓	✓(2)		✓(4)	✓		✓	✓
9	4+1/Expanded/1900/1400	✓	✓(2)		✓(4)	✓		✓	✓
A	4+2/Standard/1800/2300	✓	✓(2)	✓	✓(4)	✓	✓(5)	✓	✓
B	4+2/Expanded/1800/2300	✓	✓(2)		✓(4)	✓		✓	✓
C	4+2/Standard/1900/1400	✓	✓(2)		✓(4)	✓		✓	✓
D	4+2/Expanded/1900/1400	✓	✓(2)		✓(4)	✓		✓	✓
E	Ademco Contact ID	✓			✓	✓			✓

**KEY:**  
 (1) With 685-8 Line Card with Rev 4.4d software.  
 (2) With 9002 Line Card Rev 9035 software or 9032 Line Card with 9326A software.  
 (3) Rev. 4.0 software.  
 (4) FBI CP220FB Rec-11 Line Card with Rev 2.6 software and a memory card with Rev 3.8 software.  
 (5) Model 6500 with Rev 600 software.  
 (6) Model 6000 with Rev 204 software.  
 (7) With Rev B control card at Rev 1.4 software and Rev C line card at Rev 1.5 software.  
 (8) Model 2 only.  
 (9) Version 1.62 software.



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