411/411UD

Slave Digital Alarm Communicator Transmitter


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Description

The **Gamewell-FCI 411 and 411UD** are compact, multifaceted, slave Digital Alarm Communicator Transmitters (DACTs) designed for a variety of fire, security, and non-fire applications. The series consists of two models: the **411** and **411UD**, providing three and four monitoring channels (inputs) respectively. These slave DACTs are a cost-effective solution for applications that require an existing (or new) Fire Alarm Control Panel to transmit system status to an offsite 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) utilizing an optional PK-CD Windows®-based remote upload/download software package. The PK-CD upload/download software also permits system interrogation and revision from a remote site.

Housing

The 411 and 411UD 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 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.

Phone Line Connections

Two modular phone connections on the 411 and 411UD 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. Should one phone line go into fault, and the remaining is operational, a report is sent to the central or remote station.

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 and 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-run-away" 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 and 24-hour abnormal test.
- New 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 utilizing PRO-411 hand-held programmer.
- Programmable from remote site with optional PK-CD programming software (model 411UD only).

Features continued on page 2.

Listings

Listings and approvals below apply to the basic 411/411UD communicator/transmitter. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- UL Listed: file S2424.
- CSFM approved: file 7300-0075:174.
- MEA approved: file 328-94-E Vol. III (411UD), 328-94-E Vol. IV (411), 328-94-E Vol. VI (411UDAC).

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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)*.

Ordering Information

411	Three-channel, dual-line, slave Digital Alarm Communicator Transmitter. Includes housing, operating and programming 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-CD Windows-based programming software for remote programming and real-time diagnostics.
PRO-411	Hand-held programmer for local programming of 411 Series DACTs.
PK-CD	Remote upload/download, Windows ® compatible programming software kit (for use with PK-Series only).
MCBL-7	DACT phone cord, seven feet long (two required).

Windows® is a registered trademark of Microsoft Corporation.

Features continued...

- View 411 Series status offsite in real time, with optional PK-CD programming software, without ever compromising monitoring protection at the protected premises (model 411UD only).
- 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 — 1996 edition (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.

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.*

Specifications continued on page 4.

Compatible UL-Listed Receivers

The chart below shows UL-listed receivers compatible with 411 Series products:

	Format # (addresses 16 & 42)	Ademco 685 (1)	Silent Knight 9000	ITI CS4000 (3)	FBI CP220FB	Osborne Hoffman Models 1 & 2	Radionics 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	✔			✔	✔			✔

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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.

Specifications: 411 continued...

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 (resistive).

Specifications: 411

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 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:*** 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* 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* 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 —
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.*

Gamewell FCI FIRE CONTROL INSTRUMENTS
by Honeywell

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