



# Radionics™

## D2412U Control/Communicator with UPLINK™ Interface Specifications Sheet

### Standard Features

- Full Data interface to UPLINK™ Model 1600 Cellular/Cellemetry<sup>SM</sup> Radio Transceiver
- Expandable to 24 points with hardwire and wireless point expansion modules
- 6 on-board hardwired sensor loops, 3 software points
- Radionics' Modem IIIa<sup>2</sup>™ Communications Format
- Powered, resettable sensor loop for 2-wire smoke or glass break detectors
- Alarm Verification for fire point
- 8 user passcodes with user ID reporting
- Point bypassing
- Alarm Memory
- 12 VDC, 1000 mA Auxiliary Power †
- 12 VDC, 1.35 Amps Alarm Power †
- Battery charging circuit and voltage supervision
- Protection for all power circuits
- Power limited external circuits
- Lightning and EMI protection
- Programmable locally at the Keypad or with the D5200 Programmer or Remote Account Manager (RAM).
- Remote Account Manager provides remote programming, diagnostics, and control
- Two telephone numbers for event reporting
- Automatic test reports
- Keyswitch arming capability with outputs available for LEDs
- Radionics' Easikey™ access control disarming capability

### Programmable Features

- Alarm output
- Alarm output timer
- Entry and exit delay times
- Delay of alarm reports
- "Step Outside" function provides simple bypass and restoral of entry points
- Ability to leave through an exit delay door without turning system off with the "Exit Only" function
- Onetime Passcodes
- Two programmable on-board relay outputs (Optional relays required)
- Flexible report routing

† See Electrical Specifications



### Listings and Approvals

- Underwriters Laboratories
  - Household Fire Warning 985
  - Burglary: 1023 Household, 365 Police, 609 Local, 1076 Proprietary, 1610 Central Station
- CSFM, Control Units (Household)

### Description

The Radionics D2412U Control/Communicator is specifically designed to provide a full data interface to an UPLINK™ Radio Transceiver. Routing of different events by group (i.e., alarm, trouble, restoral, opening, closing, test, etc.) is programmable. The D2412U uses the Modem IIIa<sup>2</sup>™ communications format to the central station over both the UPLINK and telephone networks. The D2412U supervises all internal functions and external circuits, and displays system information at keypads. To help prevent false alarms, alarm reports to the central station can be delayed.

### Hardwired and Wireless Point Expansion

The D2412U system can be expanded to 24 points using any combination of hardwired points and wireless sensors. The D208RF Point Expander adds eight wireless points to the system. The D216RF Point Expander adds sixteen wireless points to the system. You can connect both a D208RF and D216RF for a 24 point wireless system.

## System Keypads

On-premises point and system status annunciation is provided through the D222 or D223 Keypads. The D2412U supports up to eight D222 or D223 Keypads.\*

The D222 and D223 user friendly interface features a 2-line, 32 character alphanumeric display. This easily readable display shows system, user, and point status.

Most users can operate the system with confidence after only a few minutes of instruction. The need for extensive training sessions is eliminated.

Combined with proper installation, the text keypad's simplified user interface can help reduce false alarms often associated with new systems and new users.

\* You may need an external power supply when multiple keypads are used.

## User Passcodes

You can program the D2412U with up to 8 individual passcodes. Passcodes can be 3 to 6 digits in length with no fixed digits. Passcodes can be programmed to activate a relay output when entered at the keypad. You can program the D2412U to transmit user ID's for each passcode.

There are three passcode types. The three types allow you to restrict access to certain system functions.

## Expanded Modem IIIa<sup>2</sup>™ Reporting

The Modem IIIa<sup>2</sup>™ communications format, available with the Radionics D6500 Receiver and the D2412U, adds many reporting capabilities such as: actual point number, actual user number, bypassed points, and opening/closing reports by up to 8 users.

## D2412U Electrical Specifications

### Voltage Input

Primary: 16.5VAC, 40VA class 2 plug-in transformer  
Secondary: 12 VDC 4.0 Ah rechargeable battery,  
12 VDC 7.0 Ah rechargeable battery, or  
12 VDC 17.2 Ah rechargeable battery.

### Continuous Power Output

1000 mA maximum @ 10.2 to 13.9 VDC

### Alarm Power Output

1.35 A maximum at 10.2 to 13.9 VDC supplied on alarm. Output pattern may be Steady or Pulsed.

Modem IIIa<sup>2</sup>™ is a registered trademark of Radionics, Inc.  
UPLINK™ is a registered trademark of UPLINK Security, Inc.  
CELLEMETRY<sup>SM</sup> is a registered service mark of BellSOUTH Corporation.

† To comply with UL 985 and UL 864 for fire alarm installations, continuous power output is limited to 140 mA. The total power output during alarm conditions must be limited to 860 mA provided by the primary power supply (rectified AC).

## Ordering Information

<b>D101</b>	Lock and Key set
<b>D126</b>	12V, 7Ah Battery
<b>D133/D134</b>	Relay Module/Dual Relay Module
<b>D135A</b>	Low Battery Cutoff Module
<b>D164</b>	7' single Modular Phone Cord for connection to RJ31X or RJ38X
<b>D202A</b>	Arming Station featuring vertically oriented LED display
<b>D208</b>	Hardwire expander 8 points with enclosure
<b>D208LC</b>	Hardwire expander 8 points without enclosure
<b>D208RF</b>	RF Receiver / Expander 8 points
<b>D216RF</b>	RF Receiver / Expander 16 point
<b>D220A</b>	Arming Station featuring horizontally oriented LED display
<b>D222</b>	Arming Station featuring LCD display with 4 expansion points
<b>D223</b>	Arming Station featuring LCD display
<b>L222</b>	D222 Specification Sheet pack of 100
<b>D250</b>	Base for use with D254 or D255
<b>D254</b>	135° Fixed Point Thermostat
<b>D255</b>	190° Fixed Point Thermostat
<b>D261A</b>	6" base for use with D262
<b>D262</b>	Smoke Detector
<b>D440</b>	6" 12 VDC Bell
<b>D442</b>	10" 12 VDC Bell
<b>D448</b>	12 VDC Horn
<b>D1240</b>	12V, 4Ah Battery
<b>D1640</b>	Transformer for the D2412U
<b>D2412U</b>	Control/Communicator
	<ul style="list-style-type: none"><li>• D2412 Control/Communicator</li><li>• D2203 Enclosure</li><li>• D1640 Transformer</li></ul>
<b>D2412M</b>	Control/Communicator with Mounting Skirt for D2412U installation in the D8103, D8108A or D8109 Enclosure. Transformer is ordered separately.
<b>D5200</b>	Programmer for on-site programming of D2412U and other Radionics products.
<b>D5300</b>	Remote Account Manager II (RAM II) Provides remote programming, control, and diagnostics for the D2412U and other Radionics products.



**Radionics**™

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