

D2071A Programming

Using the D5200 Programmer

Description

This section provides a brief operation overview of the D5200 Programmer. It is not intended to be a substitute for the *D5200 Operation Manual* (74-06176-000). You should be familiar with the *D5200 Operation Manual* before attempting to program any Radionics Product.

To program the D2071A DACT with the D5200 Programmer, make sure the programmer contains the 2071 Product Handler Program. See the *D5200 Programmer Operation Manual* for D5200 update instructions.

Navigating Through Handlers and Program Records

Access program items by navigating through “groups” of the programmer. Use the red *ENTER GROUP* and *EXIT GROUP* keys to move in and out of each group (see Figure 9).

Use the red up ↑ and down ↓ arrow keys to scroll through the list of items at each group. Scroll through a list of available product handlers at the Product Handler Group. See saved record titles at the Record Group, and program items are at the Program Item group.

Use the red left ← and right → arrow keys to move the cursor horizontally within one line of the LCD display.

Figure 9 shows an example of how to use navigational keys to move through the 2071 program. Use these keys the same way for all product handlers.

Function Keys

Six function keys simplify the use of the programmer.

ON The red *ON* key switches the programmer on. This key does not power down the programmer. Switch the D5200 off by selecting 5200 OFF in the PRODUCT HANDLERS menu, or it will power down automatically after the programmed Time Out time has elapsed.

HELP The red *HELP* key switches the programmer into help mode. See the *D5200 Operation and Installation Manual* for more information.

CANCEL Use the red *CANCEL* key to undo changed items if you have not yet accepted the change by pressing the white *ENTER* key.

CLEAR The red *CLEAR* key erases unENTERed or ENTERED program item data, and replaces it with blank spaces.

RECV (COPY) The red *RECV (COPY)* key moves a copy of the record in the attached product to the D5200 Programmer.

SEND (LOAD) The red *SEND (LOAD)* key moves a copy of the record in the D5200 Programmer to a product you are programming.

Data Keys

The white keys on the keyboard are used for data entry.

Helpful Tones

The D5200 Programmer emits four distinct sounds, which notify the user of key presses, data acceptance/rejection, and system errors.

Click A short, sharp click occurs every time you press a key. The programmer does *not* click when you press the *ON*, CAP LOCK, and SHIFT keys.

Pip A short, single frequency tone sounds when you press the white *ENTER* key and the D5200 accepts the change.

Tweedle A quick series of pips indicating that you pressed an invalid key or made an inappropriate entry.

Buzz A sour, flat tone indicates a system error. Examples of typical system errors follow:

- A product is not connected to D5200 when you try to copy or load it.
- The D5200 is notifying you of a low battery condition.
- The D5200 announces that it will automatically count down and then turn off.
- You are attempting to delete a record or handler.
- You are entering into a product handler which contains a TIMEOUTSAVE record. The TIMEOUTSAVE record was saved by the D5200 when the it automatically turned off to save power.

Editing a Record

To make changes to an existing *2071* record:

1. Scroll to the *2071* product handler from the Product Handlers menu using the red ↓ or ↑ keys, and press the red *ENTER GROUP* key.
2. Scroll to the appropriate record title using the red ↓ or ↑ keys, and press the red *ENTER GROUP* key.
3. Scroll to the appropriate program item using the red ↓ or ↑ keys, and edit the entry. Press the white *ENTER* key to enter the new data.
4. Press the red *EXIT GROUP* key to exit from the record. The SAVE display appears if changes have been made to any program item entries in the record.

Programmer Connection

To access the four-pin Programmer Connector (J3), slide back the cover on the D2071A. The Programmer Connector is next to terminal 1 (see Figure 1). The D2071A is ready for programming after connecting it to the programmer. It is not necessary to reset the D2071A before loading to, or copying from the panel.

Programming before installing the phone lines may sound the buzzer: You can program the D2071A prior to installation. However, if the D2071A is powered and not connected to a phone line, the phone fail buzzer sounds after approximately ten minutes. Power down the unit to silence the buzzer.

Program the Radionics D2071A using the Radionics D5200 Programmer containing the *2071* Product Handler. Before programming the D2071A, we recommend that

you read and become familiar with this section of the manual.

Entering the 2071 Handler

1. Starting at *PRODUCT HANDLERS*, press the red ↓ until the cursor is on *2071*. Press the red **ENTER GROUP** key.
2. The cursor appears on the *NEWRECORD* prompt. Press the red **ENTER GROUP** key.
3. The D5200 displays *Account #*.

Program Modules

Unlike larger Radionics products, the *2071* Product Handler does not group Program Items in *Program Modules*. You are in the Program Item Level as soon as you enter the *2071* program.

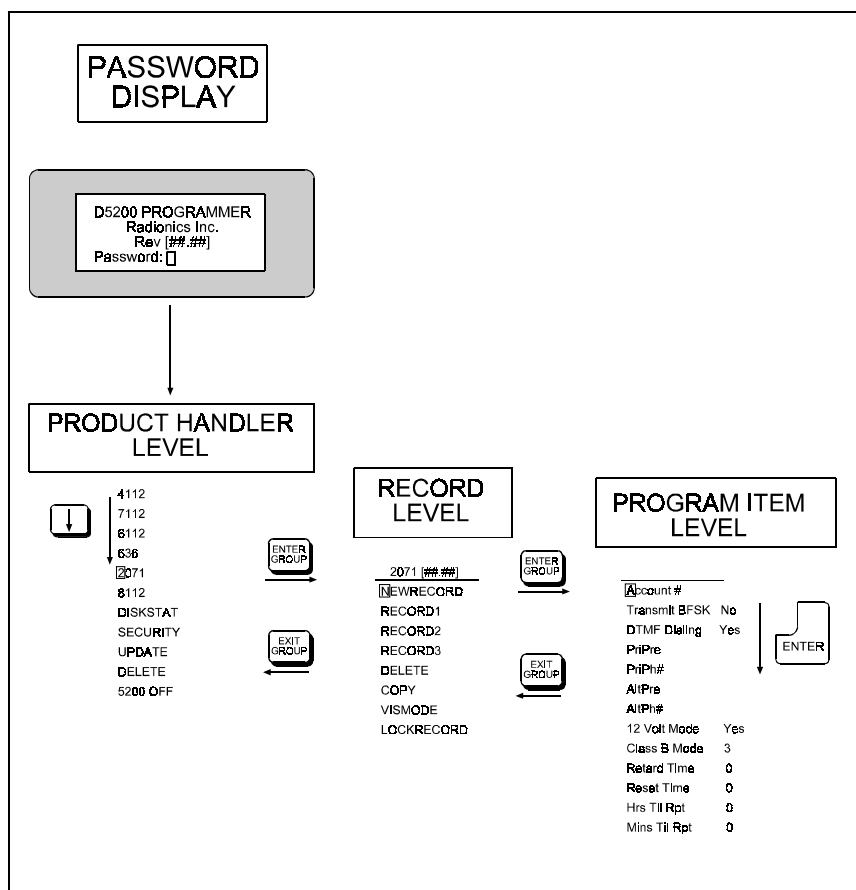


Figure 9: Navigating the 2071 Program

How to Edit the Program Record

Each D2071A DACT programming option (Program Item) is listed with a *Display* and a *Default* (as they appear in the programmer display), a set of *Selections*, and a *Description*.

The Selections are the only entries available for a particular Program Item. For instance, the Program item *Account #* can only use 0 through 9, B through F, or no entry. *Do not use unlisted entries.*

To edit program items, change the entry and press the white **ENTER** key. If the entry is valid, the programmer moves the cursor to the next prompt. When you have edited all the Program Items in the record, the programmer returns you to the first program item in the record.

Exiting the 2071 program: You can exit from any point within the program. To exit the 2071 program, press the **EXIT GROUP** key until the D5200 Programmer displays

PRODUCT HANDLERS.

2071 Program

This record selects several functions of the D2071A DACT, including the account number used to identify the location during communication, how it will dial the phone number, how the D2071A will be powered, and loop response times.

Account #

Default: Blank
Selections: 0 - 999, BBB - FFF,
or Blank

All entries should be right justified. Blank Entry = No account number (sends 000 in pulse, sends nothing in BFSK).

Transmit BFSK

Default: Yes
Selections: Yes or No

Program the receiver reporting format.

Yes ----- Transmit in **BFSK** format with 2300 Hz acknowledgment.

No ----- Transmit in fast, single round, expanded pulsed format with a checksum digit and 2300 Hz acknowledgment.

DTMF Dialing

Default: Yes
Selections: Yes or No

Yes ----- Dual Tone Multi-Frequency **Dialing** of the telephone numbers

No ----- Pulse dialing

PriPre

Default: Blank
Selections: 0 - 9, B - F,
or Blank

Prefix for the **Primary** receiver telephone number . Enter up to nine characters.

Blank ---- No prefix/area code. A delay of up to 7 seconds is automatically inserted in front of the prefix.

See Table: *Special Dialing Characters* for other selections.

PriPh#

Default: Blank
Selections: 0 - 9, B - F,
or Blank

Primary receiver tele**Ph**one number. Enter up to seven characters

See Table: *Special Dialing Characters* for other selections.

Primary and alternate phone numbers **MUST** be programmed, and the primary number **MUST** be different from the alternate phone number.

Special Dialing Characters		
Selection	Affect on Dialing	Comments
B	(*) Character	Used in accessing special telephone features.
C	Three second pause	Inserts a pause between digits while dialing.
D	Seven second dial tone wait	Waits up to seven seconds for a dial tone before dialing.
E	(#) Character	Used in accessing special telephone features.
F	Changes from rotary to DTMF or vice versa	Use when accessing some long distance carriers while using rotary-dial phone lines

Table 2: Special Dialing Characters

AltPre

Default: Blank

Selections: 0 - 9, B - F,
or Blank

Prefix for the **Alternate** receiver telephone number. Enter up to nine characters.

Blank ---- No prefix/area code . A delay of up to 7 seconds is automatically inserted in front of the prefix.

See Table: *Special Dialing Characters* for other selections.

AltPh#

Default: Blank

Selections: 0 - 9, B - F,
or Blank

Alternate receiver telePhone number. Enter up to seven characters.

See Table: *Special Dialing Characters* for other selections.

Primary and alternate phone numbers **MUST** be programmed, and the alternate number **MUST** be different from the primary phone number.

12 Volt Mode

Default: Yes

Selections: Yes or No

Enable **12** or **24 Volt** operation **Mode**.

Yes ----- 12 VAC, 20 VA, 60 Hz transformer operation

No ----- 24 VDC supply from an existing fire panel

Class B Mode

Default: 3

Selections: 1 - 3

Program the **mode** of operation for the **Class B** (NFPA Style A) Supervisory Circuits (Zones 2 and 3).

1----- Mode 1: Not acceptable for stand-alone applications.

2----- Mode 2: Restricted use for stand-alone applications.

3----- Mode 3 : Required for most stand-alone applications.

For detailed mode specifications refer to the *Supervisory Circuit* installation instructions.

Retard Time

Default: 0

Selections: 0 - 90

Program the **Retard Timer** for the Class A (NFPA Style D), Alarm Initiating Circuit (Zone 1). Enter the number of seconds for the retard time. After the alarm condition is detected on the sensor loops, the retard timer is started. An alarm report is not transmitted until the retard timer reaches the value entered in **Retard Time**. If the faulted condition restores before the retard timer reaches the value entered in **Retard Time**, the alarm report is not transmitted. For a more detailed explanation of the retard timer, see the *Zone 1, Alarm Initiating Circuit* installation instructions.

Consult the appropriate NFPA Standard or the local authority having jurisdiction for acceptable retard times.

Reset Time

Default: 0

Selections: 0 - 90

Program the **Reset Timer** for the Class A (NFPA Style D), Alarm Initiating Circuit (Zone 1). Enter the number of seconds for the reset time. The circuit must be in a non-alarm (restored or trouble) condition for the number of seconds entered here before the retard timer is set to zero. For a more detailed explanation of the reset timer, see the *Zone 1, Alarm Initiating Circuit* installation instructions.

Hrs Til Rpt

Default: 0

Selections: 0 - 25

Number of **Hours** un**Til** the first test **Report** is sent. Program the number of hours from when the panel is powered up, or reset with the programmer, to when the first test report is sent. If this entry and *Min Til Rpt* are both left defaulted at 0, the first test report is sent in 12 hours and all subsequent reports are sent at 24 hour intervals thereafter.

Mins Til Rpt

Default: 0

Selections: 0 - 59

Number of **Minutes** un**Til** the first test **Report** is sent. Program the number of additional minutes the first test report is delayed over and above the hours programmed in *Hrs Til Rpt*.

Test Timer Default Delay: When the unit is powered up the first test occurs 12 hours later unless you program a delay in *Hrs Til Rpt* and/or *Mins Til Rpt*.

Receiver Reports

ALARM ZN 1:

A closure or short between the two loops of the Class A (NFPA Style D) Alarm Initiating circuit. This report is delayed by the time specified in *Retard Time* (for waterflow alarm applications only).

ALARM ZN 2:

Mode 1: Open on the Class B (NFPA Style A) Supervisory circuit, terminals 10 and 11.

Mode 2: Resistance on the Class B (NFPA Style A) Supervisory circuit, terminals 10 and 11.

Mode 3: Closure or short between terminals or a ground fault on the positive (+) side of the Class B (NFPA Style A) Supervisory circuit, terminals 10 and 11.

ALARM ZN 3:

Mode 1: Open on the Class B (NFPA Style A) Supervisory Circuit, terminals 11 and 12.

Mode 2: Resistance on the Class B (NFPA Style A) Supervisory Circuit, terminals 11 and 12.

Mode 3: Closure or short between terminals or a ground fault on the positive (+) side of the Class B (NFPA Style A) Supervisory Circuit, terminals 11 and 12.

RESTORAL ZN 1:

The Class A (NFPA Style D) Alarm Initiating circuit returned to normal from an alarm or trouble condition. This report is delayed by the time specified in *Reset Time* when the circuit restores from an alarm condition.

RESTORAL ZN 2:

All modes: Trouble or Alarm condition on Zone 2 has cleared.

RESTORAL ZN 3:

All modes: Trouble or Alarm condition on Zone 3 has cleared.

RESTORAL ZN 9:

12 VAC Mode: This report is transmitted after AC power is restored, the panel has been programmed, or the battery is changed or recharged.

24 VDC Mode: This report is transmitted when DC power input is applied, when the DC power input reaches 27.6 VDC after falling below 24.3 VDC, or after programming the panel.

RESTORAL ZN B:

Primary phone line restored.

RESTORAL ZN C:

Alternate phone line restored.

RESTORAL ZN E:

Normal test timer activation.

TROUBLE ZN 1:

A break or ground on either loop of the Class A (NFPA Style D) Alarm Initiating circuit (no retard time applies).

TROUBLE ZN 2:

Mode 1: Not available.

Mode 2: Class B (NFPA Style A) circuit, terminals 10 and 11, open.

Mode 3: Class B (NFPA Style A) circuit, terminals 10 and 11, open.

TROUBLE ZN 3:

Mode 1: Not available.

Mode 2: Class B (NFPA Style A) circuit, terminals 11 and 12, open.

Mode 3: Class B (NFPA Style A) circuit, terminals 11 and 12, open.

TROUBLE ZN 9:

12 VAC Mode: Low Battery.

24 VDC Mode: DC power input less than 24.3 volts.

TROUBLE ZN B:

Open or short on primary phone line.

TROUBLE ZN C:

Open or short on alternate phone line.

TROUBLE ZN E:

Communications failure after ten attempts to transmit a report. Reports in the D2071A's buffer when communications failure occurs are not transmitted. The buffer is cleared.

or

Test timer failed to report on the first attempt.

or

When received in the same transmission (phone call) with another report, a TROUBLE ZN E indicates the other report(s) in the transmission did not get through on the first attempt.