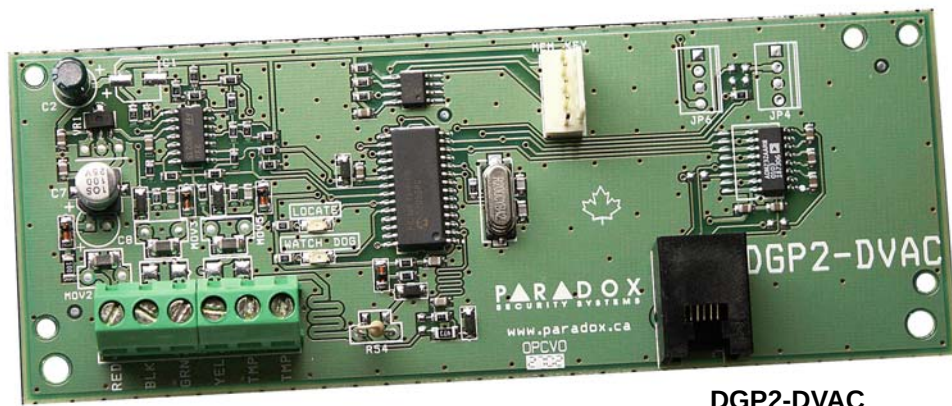


DVACS MODULE V1.0

DGP2-DVAC



DGP2-DVAC

COMPLETE INSTALLATION MANUAL

Reference, Installation and Programming

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1.0 OVERVIEW

1.1 INTRODUCTION

The DVACS module serves as a gateway between the Digiplex system (DGP-848/DGP-NE96), and a Subset F1/F2 modem. The modem's function is to transmit signals across a secure, dedicated connection to a central monitoring station. The DVACS module converts the signal from the control panel into a format the Subset F1/F2 modem can process. As a result, any tampering or loss of communication between the control panel and the monitoring station will generate an alarm.

Figure 1: Overview of a Dedicated Connection



1.2 WHAT'S NEW WITH V1.02

- "Network Fault" report code [385] sent when a combus communication failure occurs
- Fail to communicate LED indication. If both the "Locate" and "WDG" LEDs are alternately flashing, the module is experiencing a communication failure with the control panel. (see Hardware Connections on page 4)
- Locate Module Feature deactivation with Anti-tamper Switch (see Hardware Connections on page 4)

1.3 FEATURES

- Connects directly to the combus of a Digiplex(DGP-848 or DGP-NE96) system
- Provides constant power, supervision, as well as two-way communication between the control panel and the Subset F1/F2 modem
- On-board RJ-11 jack
- Anti-tamper switch input
- Memory Key connector

1.4 SPECIFICATIONS

- | | |
|-------------------------------------|--|
| • Power input: | Typically 12 to 16 Vdc, 40mA maximum (with Subset F1/F2 modem connected) |
| • Power indication: | Watchdog LED will flash |
| • Locate indication: | Green LED will flash rapidly |
| • Communication Failure indication: | Locate and Watchdog LEDs will flash alternately |
| • Tamper input: | Yes |
| • Compatibility: | Any version of Digiplex (DGP-848 or DGP-NE96); WinLoad version 2.2 or higher |
| • Temperature: | 0°C (32°F) to 50°C (122°F) |

2.0 INSTALLATION

2.1 LOCATION AND MOUNTING

The DVACS module may be installed within its own 20cm X 25cm X 7cm (8" X 10" X 3") metal or plastic box. Before mounting the cabinet, push the five white nylon mounting studs into the back of the cabinet. Pull all cables into the cabinet and prepare them for connection before mounting the circuit board into the back of the cabinet. Select an installation site that is dry and not easily accessible to intruders and leave at least 2" around the panel box to permit adequate ventilation and heat dissipation.

2.2 CONNECTION TO THE CONTROL PANEL

The DVACS module is connected to the Digiplex (DGP-848/DGP-NE96) control panel's combus in a star and/or daisy chain configuration. The combus consists of four wires that provide power and two-way communication between the control panel and all modules connected to it. Connect the four terminals labelled **RED**, **BLK**, **GRN** and **YEL** of the module to the corresponding terminals on the control panel as shown in Figure 2 on page 4. Please refer to the *Digiplex or DigiplexNE Installation & Reference Manual* for maximum allowable installation distance from the control panel.

2.3 CONNECTION TO SUBSET F1/F2 MODEM

2.3.1 POWER CONNECTION

To power the Subset F1/F2 modem, connect the two terminals labelled **RED** and **BLK** of the DVACS module to the **BATT** input of the Subset F1/F2 modem (Figure 2 on page 4).

2.3.2 COMMUNICATION CONNECTION

To establish communication, connect the wire from the DGP2-DVAC to the Subset F1/F2 modem's **DROP** input (Figure 2 on page 4). This wire includes both an RJ-11 (6 pin) extension and a RJ-45 (6 pin) extension.

2.4 PROGRAMMING METHOD

To program the DGP2-DVAC, you must enter "Module Programming Mode" using any keypad in the system. To do so:

- 1) Press and hold the **[0]** key.
- 2) Enter the **[INSTALLER CODE]**.
- 3) Enter section **[953]** (DGP-848) / **[4003]** (DGP-NE96).
- 4) Enter the DGP2-DVAC's 8-digit **[SERIAL NUMBER]**.
- 5) Enter the 3-digit **[SECTION]** you wish to program.
- 6) Turn the desired option ON/OFF or enter the required data.

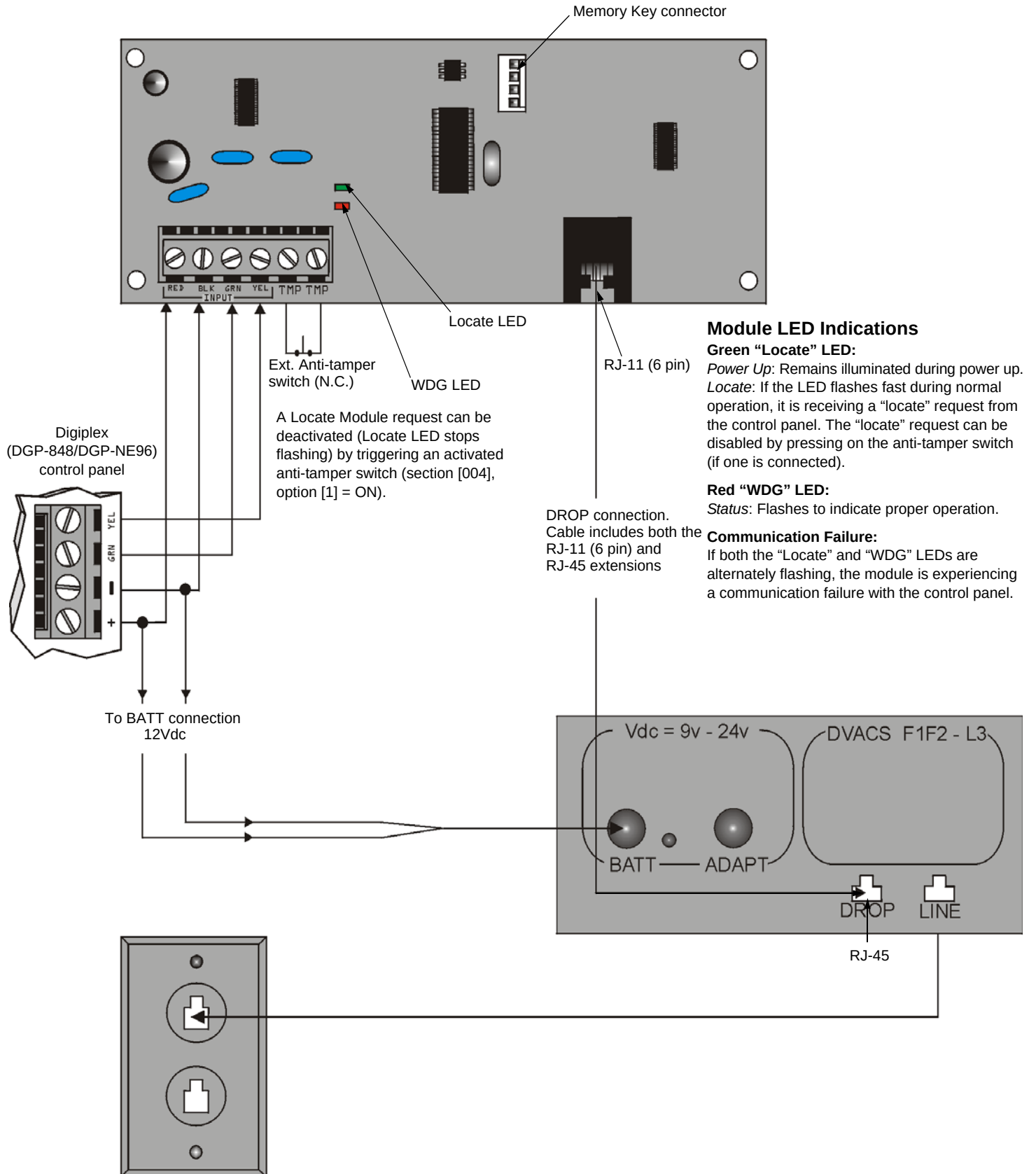
The DVACS module can also be programmed using the control panel's *Module Broadcast* feature or the Memory Key as well as through the WinLoad Software (V2.2 or higher). Refer to the *Digiplex or DigiplexNE Reference & Installation Manual* for more information on the *Module Broadcast* feature and to WinLoad's *Online Help* for information on programming with WinLoad.



The serial number is located on the module's PC board.

3.0 HARDWARE CONNECTIONS

Figure 2: Connection



4.0 PROGRAMMING

4.1 DGP2-DVAC PROGRAMMING SECTIONS

4.1.1 PARTITION ASSIGNMENT - SECTION [001] OPTIONS [1] TO [8]

Use the following section to enable/disable which partitions will transmit an event to the monitoring station.

△=Default

Section [001]	Option	Description	OFF	ON
	[1]	Partition 1	☐	△
	[2]	Partition 2	☐	△
	[3]	Partition 3	☐	△
	[4]	Partition 4	☐	△
	[5]	Partition 5	☐	△
	[6]	Partition 6	☐	△
	[7]	Partition 7	☐	△
	[8]	Partition 8	☐	△



Section [001] options [5] to [8] are available only on DGP-NE96 systems

4.1.2 IDENTIFICATION CODE - SECTION [002]

Use the following section to set the identification code for the DGP2-DVAC (01 to F0). The controlling device (usually a monitoring station receiver) uses this code to identify transmitting modules.

Section [002]	Data	Description	Default
	___/___	ID Code	00



When the data value in section [002] is set to 00, the module will stop transmitting to the Subset F1/F2 modem.

4.1.3 All Call - SECTION [003]

A monitoring station may have several modules communicating with it. To optimize communication, a “polling method” is used between monitoring stations and modules such as the DGP2-DVAC. Polling is the continuous checking of devices by one program or device to see the status of modules, usually to see whether they are still connected or want to communicate. The controlling device at the monitoring station sends a message to each device, one at a time, asking each whether it has anything to communicate (in other words, whether it wants to use the line). Modules take turns in answering according to their assigned ID Code (see section [002]).

“All Call” is a general broadcast the controlling device will send to all modules, asking whether there are events to report. Only DVAC modules that have been programmed to respond to an “All Call” broadcast will transmit. There can be several types of “All Call” broadcasts and their numbers may differ from station to station. Use section [003] to set how the DGP2-DVAC will respond to the controlling device. This value will determine how the module will respond to the controlling device and which “All Call” broadcast it can receive.

Section [003]	Data	Description
	00	No response to all calls
	01	Response to all call # 1 only
	02	Response to all call # 2 only
	03	Response to both all calls
	04	Response to all call # 1 if ID code is odd or to all call # 2 if ID code is even

4.1.4 ANTI-TAMPER SWITCH - SECTION [004]: OPTION [1]

If there is an anti-tamper switch connected to DGP2-DVAC's TMP (tamper) input terminals (see Hardware Connections on page 4), this option is used to enable or disable the anti-tamper switch. The anti-tamper switch can also be used to deactivate a Locate Module request (see Hardware Connections on page 4).

4.1.5 GROUP SECTION ASSIGNMENT - SECTION [004]: OPTION [2] TO [8]

Use the following section to enable which *group of sections* will transmit an event to the monitoring station. Each selected option will affect all sections within its corresponding group section. For example, if section [004] option [4] is disabled (OFF), the DGP2-DVAC will not transmit the status of sections [198] to [336] even if an event has occurred.

△=Default

Section [004]	Option	Description	Group Sections	OFF	ON
	[1]	On-board anti-tamper switch		☐	△
	[2]	Alarm / restore	[006] to [101] (pg 6 to 8)	☐	△
	[3]	Tamper / restore	[102] to [197] (pg 9 to 11)	☐	△
	[4]	Arm / disarm	[198] to [336] (pg 11 to 15)	☐	△
	[5]	Special	[337] to [376] (pg 15 to 17)	☐	△
	[6]	Trouble / restore	[377] to [399] (pg 17)	☐	△
	[7]	Future use		☐	△
	[8]	Future use		☐	△

Section [005] Future use

4.2 DGP2-DVAC IDENTIFIERS

Use sections [006] to [399] to program the function byte and reporting code for the events transmitted over the DGP2-DVAC line. Once you have entered a section, you will be prompted to enter a function byte followed by a reporting code. Once this information is entered, the system will automatically generate that event's restore value. In addition, you may also use the FB values provided at the back of this manual (see Function Byte Reference Lists on page 20) to modify existing defaults.



When programming a section, if the panel loses communication with the DGP2-DVAC module, the message "Missing Module" will be displayed. If this occurs check your wiring, then program the section again.

4.2.1 FUNCTION BYTES

A function byte represents the event's description and can be any hexadecimal value from 00 to FF see section 5.0 *Function Byte Reference Lists* on page 20.

Reserved Value for Specific Transmission

Value "FF" is predetermined and will transmit the default function byte.

4.2.2 REPORTING CODES

The reporting code represents which item, such as a zone, that triggered the event. These values range from 000 to 255.

Reserved Values for Specific Transmissions

The following reporting codes correspond to:

- 000 will disable transmission.
- 254 will transmit a zero.
- 255 will transmit the default RC.



If the function byte used is 7E the corresponding reporting codes will be defined according to the selections made in section "Specific RC Data Function Byte 7E" on page 23.

4.2.3 TABLE HEADING CONVENTION

Section number	Function byte (see page 20)	Reporting Code 000-255 or section 5.7 on page 23 when function byte = 7E	Description of event that occurred	Default value
----------------	-----------------------------	--	------------------------------------	---------------

Section	FB Data (Hex)	RC Data (Dec)	Description	Default
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Example:

[XXX]

___/___

___/___/___

Time Changed

XXX

Alarm on Zone: Sections [006] to [101]

Section	FB Data (Hex)	RC Data (Dec)	Description	Default
[006]	___/___	___/___/___	Alarm/restore on zone 1	(06 / 001)
[007]	___/___	___/___/___	Alarm/restore on zone 2	(06 / 002)
[008]	___/___	___/___/___	Alarm/restore on zone 3	(06 / 003)
[009]	___/___	___/___/___	Alarm/restore on zone 4	(06 / 004)
[010]	___/___	___/___/___	Alarm/restore on zone 5	(06 / 005)
[011]	___/___	___/___/___	Alarm/restore on zone 6	(06 / 006)
[012]	___/___	___/___/___	Alarm/restore on zone 7	(06 / 007)
[013]	___/___	___/___/___	Alarm/restore on zone 8	(06 / 008)
[014]	___/___	___/___/___	Alarm/restore on zone 9	(06 / 009)
[015]	___/___	___/___/___	Alarm/restore on zone 10	(06 / 010)
[016]	___/___	___/___/___	Alarm/restore on zone 11	(06 / 011)
[017]	___/___	___/___/___	Alarm/restore on zone 12	(06 / 012)
[018]	___/___	___/___/___	Alarm/restore on zone 13	(06 / 013)
[019]	___/___	___/___/___	Alarm/restore on zone 14	(06 / 014)
[020]	___/___	___/___/___	Alarm/restore on zone 15	(06 / 015)
[021]	___/___	___/___/___	Alarm/restore on zone 16	(06 / 016)
[022]	___/___	___/___/___	Alarm/restore on zone 17	(06 / 017)

Alarm on Zone: Sections [006] to [101]

Section	FB Data (Hex)	RC Data (Dec)	Description	Default
[023]	___/___	___/___/___	Alarm/restore on zone 18	(06 / 018)
[024]	___/___	___/___/___	Alarm/restore on zone 19	(06 / 019)
[025]	___/___	___/___/___	Alarm/restore on zone 20	(06 / 020)
[026]	___/___	___/___/___	Alarm/restore on zone 21	(06 / 021)
[027]	___/___	___/___/___	Alarm/restore on zone 22	(06 / 022)
[028]	___/___	___/___/___	Alarm/restore on zone 23	(06 / 023)
[029]	___/___	___/___/___	Alarm/restore on zone 24	(06 / 024)
[030]	___/___	___/___/___	Alarm/restore on zone 25	(06 / 025)
[031]	___/___	___/___/___	Alarm/restore on zone 26	(06 / 026)
[032]	___/___	___/___/___	Alarm/restore on zone 27	(06 / 027)
[033]	___/___	___/___/___	Alarm/restore on zone 28	(06 / 028)
[034]	___/___	___/___/___	Alarm/restore on zone 29	(06 / 029)
[035]	___/___	___/___/___	Alarm/restore on zone 30	(06 / 030)
[036]	___/___	___/___/___	Alarm/restore on zone 31	(06 / 031)
[037]	___/___	___/___/___	Alarm/restore on zone 32	(06 / 032)
[038]	___/___	___/___/___	Alarm/restore on zone 33	(06 / 033)
[039]	___/___	___/___/___	Alarm/restore on zone 34	(06 / 034)
[040]	___/___	___/___/___	Alarm/restore on zone 35	(06 / 035)
[041]	___/___	___/___/___	Alarm/restore on zone 36	(06 / 036)
[042]	___/___	___/___/___	Alarm/restore on zone 37	(06 / 037)
[043]	___/___	___/___/___	Alarm/restore on zone 38	(06 / 038)
[044]	___/___	___/___/___	Alarm/restore on zone 39	(06 / 039)
[045]	___/___	___/___/___	Alarm/restore on zone 40	(06 / 040)
[046]	___/___	___/___/___	Alarm/restore on zone 41	(06 / 041)
[047]	___/___	___/___/___	Alarm/restore on zone 42	(06 / 042)
[048]	___/___	___/___/___	Alarm/restore on zone 43	(06 / 043)
[049]	___/___	___/___/___	Alarm/restore on zone 44	(06 / 044)
[050]	___/___	___/___/___	Alarm/restore on zone 45	(06 / 045)
[051]	___/___	___/___/___	Alarm/restore on zone 46	(06 / 046)
[052]	___/___	___/___/___	Alarm/restore on zone 47	(06 / 047)
[053]	___/___	___/___/___	Alarm/restore on zone 48	(06 / 048)
[054]	___/___	___/___/___	Alarm/restore on zone 49*	(06 / 049)
[055]	___/___	___/___/___	Alarm/restore on zone 50*	(06 / 050)
[056]	___/___	___/___/___	Alarm/restore on zone 51*	(06 / 051)
[057]	___/___	___/___/___	Alarm/restore on zone 52*	(06 / 052)
[058]	___/___	___/___/___	Alarm/restore on zone 53*	(06 / 053)

* = DGP-NE96 only

Alarm on Zone: Sections [006] to [101]

Section	FB Data (Hex)	RC Data (Dec)	Description	Default
[059]	___/___	___/___/___	Alarm/restore on zone 54*	(06 / 054)
[060]	___/___	___/___/___	Alarm/restore on zone 55*	(06 / 055)
[061]	___/___	___/___/___	Alarm/restore on zone 56*	(06 / 056)
[062]	___/___	___/___/___	Alarm/restore on zone 57*	(06 / 057)
[063]	___/___	___/___/___	Alarm/restore on zone 58*	(06 / 058)
[064]	___/___	___/___/___	Alarm/restore on zone 59*	(06 / 059)
[065]	___/___	___/___/___	Alarm/restore on zone 60*	(06 / 060)
[066]	___/___	___/___/___	Alarm/restore on zone 61*	(06 / 061)
[067]	___/___	___/___/___	Alarm/restore on zone 62*	(06 / 062)
[068]	___/___	___/___/___	Alarm/restore on zone 63*	(06 / 063)
[069]	___/___	___/___/___	Alarm/restore on zone 64*	(06 / 064)
[070]	___/___	___/___/___	Alarm/restore on zone 65*	(06 / 065)
[071]	___/___	___/___/___	Alarm/restore on zone 66*	(06 / 066)
[072]	___/___	___/___/___	Alarm/restore on zone 67*	(06 / 067)
[073]	___/___	___/___/___	Alarm/restore on zone 68*	(06 / 068)
[074]	___/___	___/___/___	Alarm/restore on zone 69*	(06 / 069)
[075]	___/___	___/___/___	Alarm/restore on zone 70*	(06 / 070)
[076]	___/___	___/___/___	Alarm/restore on zone 71*	(06 / 071)
[077]	___/___	___/___/___	Alarm/restore on zone 72*	(06 / 072)
[078]	___/___	___/___/___	Alarm/restore on zone 73*	(06 / 073)
[079]	___/___	___/___/___	Alarm/restore on zone 74*	(06 / 074)
[080]	___/___	___/___/___	Alarm/restore on zone 75*	(06 / 075)
[081]	___/___	___/___/___	Alarm/restore on zone 76*	(06 / 076)
[082]	___/___	___/___/___	Alarm/restore on zone 77*	(06 / 077)
[083]	___/___	___/___/___	Alarm/restore on zone 78*	(06 / 078)
[084]	___/___	___/___/___	Alarm/restore on zone 79*	(06 / 079)
[085]	___/___	___/___/___	Alarm/restore on zone 80*	(06 / 080)
[086]	___/___	___/___/___	Alarm/restore on zone 81*	(06 / 081)
[087]	___/___	___/___/___	Alarm/restore on zone 82*	(06 / 082)
[088]	___/___	___/___/___	Alarm/restore on zone 83*	(06 / 083)
[089]	___/___	___/___/___	Alarm/restore on zone 84*	(06 / 084)
[090]	___/___	___/___/___	Alarm/restore on zone 85*	(06 / 085)
[091]	___/___	___/___/___	Alarm/restore on zone 86*	(06 / 086)
[092]	___/___	___/___/___	Alarm/restore on zone 87*	(06 / 087)
[093]	___/___	___/___/___	Alarm/restore on zone 88*	(06 / 088)
[094]	___/___	___/___/___	Alarm/restore on zone 89*	(06 / 089)

* = DGP-NE96 only

Alarm on Zone: Sections [006] to [101]

Section	FB Data (Hex)	RC Data (Dec)	Description	Default
[095]	___/___	___/___/___	Alarm/restore on zone 90*	(06 / 090)
[096]	___/___	___/___/___	Alarm/restore on zone 91*	(06 / 091)
[097]	___/___	___/___/___	Alarm/restore on zone 92*	(06 / 092)
[098]	___/___	___/___/___	Alarm/restore on zone 93*	(06 / 093)
[099]	___/___	___/___/___	Alarm/restore on zone 94*	(06 / 094)
[100]	___/___	___/___/___	Alarm/restore on zone 95*	(06 / 095)
[101]	___/___	___/___/___	Alarm/restore on zone 96*	(06 / 096)

Zone Tamper: Sections [102] to [197]

Section	FB Data (Hex)	RC Data (Dec)	Description	Default
[102]	___/___	___/___/___	Tamper trouble/restore on zone 1	(26 / 001)
[103]	___/___	___/___/___	Tamper trouble/restore on zone 2	(26 / 002)
[104]	___/___	___/___/___	Tamper trouble/restore on zone 3	(26 / 003)
[105]	___/___	___/___/___	Tamper trouble/restore on zone 4	(26 / 004)
[106]	___/___	___/___/___	Tamper trouble/restore on zone 5	(26 / 005)
[107]	___/___	___/___/___	Tamper trouble/restore on zone 6	(26 / 006)
[108]	___/___	___/___/___	Tamper trouble/restore on zone 7	(26 / 007)
[109]	___/___	___/___/___	Tamper trouble/restore on zone 8	(26 / 008)
[110]	___/___	___/___/___	Tamper trouble/restore on zone 9	(26 / 009)
[111]	___/___	___/___/___	Tamper trouble/restore on zone 10	(26 / 010)
[112]	___/___	___/___/___	Tamper trouble/restore on zone 11	(26 / 011)
[113]	___/___	___/___/___	Tamper trouble/restore on zone 12	(26 / 012)
[114]	___/___	___/___/___	Tamper trouble/restore on zone 13	(26 / 013)
[115]	___/___	___/___/___	Tamper trouble/restore on zone 14	(26 / 014)
[116]	___/___	___/___/___	Tamper trouble/restore on zone 15	(26 / 015)
[117]	___/___	___/___/___	Tamper trouble/restore on zone 16	(26 / 016)
[118]	___/___	___/___/___	Tamper trouble/restore on zone 17	(26 / 017)
[119]	___/___	___/___/___	Tamper trouble/restore on zone 18	(26 / 018)
[120]	___/___	___/___/___	Tamper trouble/restore on zone 19	(26 / 019)
[121]	___/___	___/___/___	Tamper trouble/restore on zone 20	(26 / 020)
[122]	___/___	___/___/___	Tamper trouble/restore on zone 21	(26 / 021)
[123]	___/___	___/___/___	Tamper trouble/restore on zone 22	(26 / 022)
[124]	___/___	___/___/___	Tamper trouble/restore on zone 23	(26 / 023)
[125]	___/___	___/___/___	Tamper trouble/restore on zone 24	(26 / 024)
[126]	___/___	___/___/___	Tamper trouble/restore on zone 25	(26 / 025)
[127]	___/___	___/___/___	Tamper trouble/restore on zone 26	(26 / 026)

* = DGP-NE96 only

Zone Tamper: Sections [102] to [197]

Section	FB Data (Hex)	RC Data (Dec)	Description	Default
[128]	___/___	___/___/___	Tamper trouble/restore on zone 27	(26 / 027)
[129]	___/___	___/___/___	Tamper trouble/restore on zone 28	(26 / 028)
[130]	___/___	___/___/___	Tamper trouble/restore on zone 29	(26 / 029)
[131]	___/___	___/___/___	Tamper trouble/restore on zone 30	(26 / 030)
[132]	___/___	___/___/___	Tamper trouble/restore on zone 31	(26 / 031)
[133]	___/___	___/___/___	Tamper trouble/restore on zone 32	(26 / 032)
[134]	___/___	___/___/___	Tamper trouble/restore on zone 33	(26 / 033)
[135]	___/___	___/___/___	Tamper trouble/restore on zone 34	(26 / 034)
[136]	___/___	___/___/___	Tamper trouble/restore on zone 35	(26 / 035)
[137]	___/___	___/___/___	Tamper trouble/restore on zone 36	(26 / 036)
[138]	___/___	___/___/___	Tamper trouble/restore on zone 37	(26 / 037)
[139]	___/___	___/___/___	Tamper trouble/restore on zone 38	(26 / 038)
[140]	___/___	___/___/___	Tamper trouble/restore on zone 39	(26 / 039)
[141]	___/___	___/___/___	Tamper trouble/restore on zone 40	(26 / 040)
[142]	___/___	___/___/___	Tamper trouble/restore on zone 41	(26 / 041)
[143]	___/___	___/___/___	Tamper trouble/restore on zone 42	(26 / 042)
[144]	___/___	___/___/___	Tamper trouble/restore on zone 43	(26 / 043)
[145]	___/___	___/___/___	Tamper trouble/restore on zone 44	(26 / 044)
[146]	___/___	___/___/___	Tamper trouble/restore on zone 45	(26 / 045)
[147]	___/___	___/___/___	Tamper trouble/restore on zone 46	(26 / 046)
[148]	___/___	___/___/___	Tamper trouble/restore on zone 47	(26 / 047)
[149]	___/___	___/___/___	Tamper trouble/restore on zone 48	(26 / 048)
[150]	___/___	___/___/___	Tamper trouble/restore on zone 49*	(26 / 049)
[151]	___/___	___/___/___	Tamper trouble/restore on zone 50*	(26 / 050)
[152]	___/___	___/___/___	Tamper trouble/restore on zone 51*	(26 / 051)
[153]	___/___	___/___/___	Tamper trouble/restore on zone 52*	(26 / 052)
[154]	___/___	___/___/___	Tamper trouble/restore on zone 53*	(26 / 053)
[155]	___/___	___/___/___	Tamper trouble/restore on zone 54*	(26 / 054)
[156]	___/___	___/___/___	Tamper trouble/restore on zone 55*	(26 / 055)
[157]	___/___	___/___/___	Tamper trouble/restore on zone 56*	(26 / 056)
[158]	___/___	___/___/___	Tamper trouble/restore on zone 57*	(26 / 057)
[159]	___/___	___/___/___	Tamper trouble/restore on zone 58*	(26 / 058)
[160]	___/___	___/___/___	Tamper trouble/restore on zone 59*	(26 / 059)
[161]	___/___	___/___/___	Tamper trouble/restore on zone 60*	(26 / 060)
[162]	___/___	___/___/___	Tamper trouble/restore on zone 61*	(26 / 061)
[163]	___/___	___/___/___	Tamper trouble/restore on zone 62*	(26 / 062)

* = DGP-NE96 only

Zone Tamper: Sections [102] to [197]

Section	FB Data (Hex)	RC Data (Dec)	Description	Default
[164]	___/___	___/___/___	Tamper trouble/restore on zone 63*	(26 / 063)
[165]	___/___	___/___/___	Tamper trouble/restore on zone 64*	(26 / 064)
[166]	___/___	___/___/___	Tamper trouble/restore on zone 65*	(26 / 065)
[167]	___/___	___/___/___	Tamper trouble/restore on zone 66*	(26 / 066)
[168]	___/___	___/___/___	Tamper trouble/restore on zone 67*	(26 / 067)
[169]	___/___	___/___/___	Tamper trouble/restore on zone 68*	(26 / 068)
[170]	___/___	___/___/___	Tamper trouble/restore on zone 69*	(26 / 069)
[171]	___/___	___/___/___	Tamper trouble/restore on zone 70*	(26 / 070)
[172]	___/___	___/___/___	Tamper trouble/restore on zone 71*	(26 / 071)
[173]	___/___	___/___/___	Tamper trouble/restore on zone 72*	(26 / 072)
[174]	___/___	___/___/___	Tamper trouble/restore on zone 73*	(26 / 073)
[175]	___/___	___/___/___	Tamper trouble/restore on zone 74*	(26 / 074)
[176]	___/___	___/___/___	Tamper trouble/restore on zone 75*	(26 / 075)
[177]	___/___	___/___/___	Tamper trouble/restore on zone 76*	(26 / 076)
[178]	___/___	___/___/___	Tamper trouble/restore on zone 77*	(26 / 077)
[179]	___/___	___/___/___	Tamper trouble/restore on zone 78*	(26 / 078)
[180]	___/___	___/___/___	Tamper trouble/restore on zone 79*	(26 / 079)
[181]	___/___	___/___/___	Tamper trouble/restore on zone 80*	(26 / 080)
[182]	___/___	___/___/___	Tamper trouble/restore on zone 81*	(26 / 081)
[183]	___/___	___/___/___	Tamper trouble/restore on zone 82*	(26 / 082)
[184]	___/___	___/___/___	Tamper trouble/restore on zone 83*	(26 / 083)
[185]	___/___	___/___/___	Tamper trouble/restore on zone 84*	(26 / 084)
[186]	___/___	___/___/___	Tamper trouble/restore on zone 85*	(26 / 085)
[187]	___/___	___/___/___	Tamper trouble/restore on zone 86*	(26 / 086)
[188]	___/___	___/___/___	Tamper trouble/restore on zone 87*	(26 / 087)
[189]	___/___	___/___/___	Tamper trouble/restore on zone 88*	(26 / 088)
[190]	___/___	___/___/___	Tamper trouble/restore on zone 89*	(26 / 089)
[191]	___/___	___/___/___	Tamper trouble/restore on zone 90*	(26 / 090)
[192]	___/___	___/___/___	Tamper trouble/restore on zone 91*	(26 / 091)
[193]	___/___	___/___/___	Tamper trouble/restore on zone 92*	(26 / 092)
[194]	___/___	___/___/___	Tamper trouble/restore on zone 93*	(26 / 093)
[195]	___/___	___/___/___	Tamper trouble/restore on zone 94*	(26 / 094)
[196]	___/___	___/___/___	Tamper trouble/restore on zone 95*	(26 / 095)
[197]	___/___	___/___/___	Tamper trouble/restore on zone 96*	(26 / 096)

* = DGP-NE96 only

Keyswitch: Sections [198] to [229]

Section	FB Data (Hex)	RC Data (Dec)	Description	Default
[198]	___/___	___/___/___	Keyswitch 1 arm/disarm	(76 / 001)
[199]	___/___	___/___/___	Keyswitch 2 arm/disarm	(76 / 001)
[200]	___/___	___/___/___	Keyswitch 3 arm/disarm	(76 / 001)
[201]	___/___	___/___/___	Keyswitch 4 arm/disarm	(76 / 001)
[202]	___/___	___/___/___	Keyswitch 5 arm/disarm	(76 / 001)
[203]	___/___	___/___/___	Keyswitch 6 arm/disarm	(76 / 001)
[204]	___/___	___/___/___	Keyswitch 7 arm/disarm	(76 / 001)
[205]	___/___	___/___/___	Keyswitch 8 arm/disarm	(76 / 001)
[206]	___/___	___/___/___	Keyswitch 9 arm/disarm*	(76 / 001)
[207]	___/___	___/___/___	Keyswitch 10 arm/disarm*	(76 / 001)
[208]	___/___	___/___/___	Keyswitch 11 arm/disarm*	(76 / 001)
[209]	___/___	___/___/___	Keyswitch 12 arm/disarm*	(76 / 001)
[210]	___/___	___/___/___	Keyswitch 13 arm/disarm*	(76 / 001)
[211]	___/___	___/___/___	Keyswitch 14 arm/disarm*	(76 / 001)
[212]	___/___	___/___/___	Keyswitch 15 arm/disarm*	(76 / 001)
[213]	___/___	___/___/___	Keyswitch 16 arm/disarm*	(76 / 001)
[214]	___/___	___/___/___	Keyswitch 17 arm/disarm*	(76 / 001)
[215]	___/___	___/___/___	Keyswitch 18 arm/disarm*	(76 / 001)
[216]	___/___	___/___/___	Keyswitch 19 arm/disarm*	(76 / 001)
[217]	___/___	___/___/___	Keyswitch 20 arm/disarm*	(76 / 001)
[218]	___/___	___/___/___	Keyswitch 21 arm/disarm*	(76 / 001)
[219]	___/___	___/___/___	Keyswitch 22 arm/disarm*	(76 / 001)
[220]	___/___	___/___/___	Keyswitch 23 arm/disarm*	(76 / 001)
[221]	___/___	___/___/___	Keyswitch 24 arm/disarm*	(76 / 001)
[222]	___/___	___/___/___	Keyswitch 25 arm/disarm*	(76 / 001)
[223]	___/___	___/___/___	Keyswitch 26 arm/disarm*	(76 / 001)
[224]	___/___	___/___/___	Keyswitch 27 arm/disarm*	(76 / 001)
[225]	___/___	___/___/___	Keyswitch 28 arm/disarm*	(76 / 001)
[226]	___/___	___/___/___	Keyswitch 29 arm/disarm*	(76 / 001)
[227]	___/___	___/___/___	Keyswitch 30 arm/disarm*	(76 / 001)
[228]	___/___	___/___/___	Keyswitch 31 arm/disarm*	(76 / 001)
[229]	___/___	___/___/___	Keyswitch 32 arm/disarm*	(76 / 001)

* = DGP-NE96 only

User Arm/Disarm: Sections [230] to [328]

Section	FB Data (Hex)	RC Data (Dec)	Description	Default
[230]	____/____	____/____/____	User 1 arm/disarm	(76 / 001)
[231]	____/____	____/____/____	User 2 arm/disarm	(76 / 002)
[232]	____/____	____/____/____	User 3 arm/disarm	(76 / 003)
[233]	____/____	____/____/____	User 4 arm/disarm	(76 / 004)
[234]	____/____	____/____/____	User 5 arm/disarm	(76 / 005)
[235]	____/____	____/____/____	User 6 arm/disarm	(76 / 006)
[236]	____/____	____/____/____	User 7 arm/disarm	(76 / 007)
[237]	____/____	____/____/____	User 8 arm/disarm	(76 / 008)
[238]	____/____	____/____/____	User 9 arm/disarm	(76 / 009)
[239]	____/____	____/____/____	User 10 arm/disarm	(76 / 010)
[240]	____/____	____/____/____	User 11 arm/disarm	(76 / 011)
[241]	____/____	____/____/____	User 12 arm/disarm	(76 / 012)
[242]	____/____	____/____/____	User 13 arm/disarm	(76 / 013)
[243]	____/____	____/____/____	User 14 arm/disarm	(76 / 014)
[244]	____/____	____/____/____	User 15 arm/disarm	(76 / 015)
[245]	____/____	____/____/____	User 16 arm/disarm	(76 / 016)
[246]	____/____	____/____/____	User 17 arm/disarm	(76 / 017)
[247]	____/____	____/____/____	User 18 arm/disarm	(76 / 018)
[248]	____/____	____/____/____	User 19 arm/disarm	(76 / 019)
[249]	____/____	____/____/____	User 20 arm/disarm	(76 / 020)
[250]	____/____	____/____/____	User 21 arm/disarm	(76 / 021)
[251]	____/____	____/____/____	User 22 arm/disarm	(76 / 022)
[252]	____/____	____/____/____	User 23 arm/disarm	(76 / 023)
[253]	____/____	____/____/____	User 24 arm/disarm	(76 / 024)
[254]	____/____	____/____/____	User 25 arm/disarm	(76 / 025)
[255]	____/____	____/____/____	User 26 arm/disarm	(76 / 026)
[256]	____/____	____/____/____	User 27 arm/disarm	(76 / 027)
[257]	____/____	____/____/____	User 28 arm/disarm	(76 / 028)
[258]	____/____	____/____/____	User 29 arm/disarm	(76 / 029)
[259]	____/____	____/____/____	User 30 arm/disarm	(76 / 030)
[260]	____/____	____/____/____	User 31 arm/disarm	(76 / 031)
[261]	____/____	____/____/____	User 32 arm/disarm	(76 / 032)
[262]	____/____	____/____/____	User 33 arm/disarm	(76 / 033)
[263]	____/____	____/____/____	User 34 arm/disarm	(76 / 034)
[264]	____/____	____/____/____	User 35 arm/disarm	(76 / 035)
[265]	____/____	____/____/____	User 36 arm/disarm	(76 / 036)

User Arm/Disarm: Sections [230] to [328]

Section	FB Data (Hex)	RC Data (Dec)	Description	Default
[266]	____/____	____/____/____	User 37 arm/disarm	(76 / 037)
[267]	____/____	____/____/____	User 38 arm/disarm	(76 / 038)
[268]	____/____	____/____/____	User 39 arm/disarm	(76 / 039)
[269]	____/____	____/____/____	User 40 arm/disarm	(76 / 040)
[270]	____/____	____/____/____	User 41 arm/disarm	(76 / 041)
[271]	____/____	____/____/____	User 42 arm/disarm	(76 / 042)
[272]	____/____	____/____/____	User 43 arm/disarm	(76 / 043)
[273]	____/____	____/____/____	User 44 arm/disarm	(76 / 044)
[274]	____/____	____/____/____	User 45 arm/disarm	(76 / 045)
[275]	____/____	____/____/____	User 46 arm/disarm	(76 / 046)
[276]	____/____	____/____/____	User 47 arm/disarm	(76 / 047)
[277]	____/____	____/____/____	User 48 arm/disarm	(76 / 048)
[278]	____/____	____/____/____	User 49 arm/disarm	(76 / 049)
[279]	____/____	____/____/____	User 50 arm/disarm	(76 / 050)
[280]	____/____	____/____/____	User 51 arm/disarm	(76 / 051)
[281]	____/____	____/____/____	User 52 arm/disarm	(76 / 052)
[282]	____/____	____/____/____	User 53 arm/disarm	(76 / 053)
[283]	____/____	____/____/____	User 54 arm/disarm	(76 / 054)
[284]	____/____	____/____/____	User 55 arm/disarm	(76 / 055)
[285]	____/____	____/____/____	User 56 arm/disarm	(76 / 056)
[286]	____/____	____/____/____	User 57 arm/disarm	(76 / 057)
[287]	____/____	____/____/____	User 58 arm/disarm	(76 / 058)
[288]	____/____	____/____/____	User 59 arm/disarm	(76 / 059)
[289]	____/____	____/____/____	User 60 arm/disarm	(76 / 060)
[290]	____/____	____/____/____	User 61 arm/disarm	(76 / 061)
[291]	____/____	____/____/____	User 62 arm/disarm	(76 / 062)
[292]	____/____	____/____/____	User 63 arm/disarm	(76 / 063)
[293]	____/____	____/____/____	User 64 arm/disarm	(76 / 064)
[294]	____/____	____/____/____	User 65 arm/disarm	(76 / 065)
[295]	____/____	____/____/____	User 66 arm/disarm	(76 / 066)
[296]	____/____	____/____/____	User 67 arm/disarm	(76 / 067)
[297]	____/____	____/____/____	User 68 arm/disarm	(76 / 068)
[298]	____/____	____/____/____	User 69 arm/disarm	(76 / 069)
[299]	____/____	____/____/____	User 70 arm/disarm	(76 / 070)
[300]	____/____	____/____/____	User 71 arm/disarm	(76 / 071)
[301]	____/____	____/____/____	User 72 arm/disarm	(76 / 072)

[302]	___/___	___/___/___	User 73 arm/disarm	(76 / 073)
[303]	___/___	___/___/___	User 74 arm/disarm	(76 / 074)
[304]	___/___	___/___/___	User 75 arm/disarm	(76 / 075)
[305]	___/___	___/___/___	User 76 arm/disarm	(76 / 076)
[306]	___/___	___/___/___	User 77 arm/disarm	(76 / 077)
[307]	___/___	___/___/___	User 78 arm/disarm	(76 / 078)
[308]	___/___	___/___/___	User 79 arm/disarm	(76 / 079)
[309]	___/___	___/___/___	User 80 arm/disarm	(76 / 080)
[310]	___/___	___/___/___	User 81 arm/disarm	(76 / 081)
[311]	___/___	___/___/___	User 82 arm/disarm	(76 / 082)
[312]	___/___	___/___/___	User 83 arm/disarm	(76 / 083)
[313]	___/___	___/___/___	User 84 arm/disarm	(76 / 084)
[314]	___/___	___/___/___	User 85 arm/disarm	(76 / 085)
[315]	___/___	___/___/___	User 86 arm/disarm	(76 / 086)
[316]	___/___	___/___/___	User 87 arm/disarm	(76 / 087)
[317]	___/___	___/___/___	User 88 arm/disarm	(76 / 088)
[318]	___/___	___/___/___	User 89 arm/disarm	(76 / 089)
[319]	___/___	___/___/___	User 90 arm/disarm	(76 / 090)
[320]	___/___	___/___/___	User 91 arm/disarm	(76 / 091)
[321]	___/___	___/___/___	User 92 arm/disarm	(76 / 092)
[322]	___/___	___/___/___	User 93 arm/disarm	(76 / 093)
[323]	___/___	___/___/___	User 94 arm/disarm	(76 / 094)
[324]	___/___	___/___/___	User 95 arm/disarm	(76 / 095)
[325]	___/___	___/___/___	User 96 arm/disarm	(76 / 096)
[326]	___/___	___/___/___	User 97 arm/disarm*	(76 / 097)
[327]	___/___	___/___/___	User 98 arm/disarm*	(76 / 098)
[328]	___/___	___/___/___	User 99-999 arm/disarm*	(76 / **)

* = DGP-NE96 only

** = If you program User arm/disarm codes that fall within the **99-999** range, the system will assign the RC equivalent to the user code number. For example: if user 100 sends a report, the system will assign this user an RC value of 100. Special Reporting Codes 254 and 255 are ignored in the as well as any other codes. The only exception is the 000 Special Reporting Code which will disable transmission.

Partition: Sections [329] to [336]

Section	FB Data (Hex)	RC Data (Dec)	Description	Default
[329]	___/___	___/___/___	Partition 1 close / open	(77 / 001)
[330]	___/___	___/___/___	Partition 2 close / open	(77 / 002)
[331]	___/___	___/___/___	Partition 3 close / open	(77 / 003)
[332]	___/___	___/___/___	Partition 4 close / open	(77 / 004)
[333]	___/___	___/___/___	Partition 5 close / open*	(77 / 005)
[334]	___/___	___/___/___	Partition 6 close / open*	(77 / 006)

[335]	___/___	___/___/___	Partition 7 close / open*	(77 / 007)
[336]	___/___	___/___/___	Partition 8 close / open*	(77 / 008)

Special Events: Sections [337] to [344]

Section	FB Data (Hex)	RC Data (Dec)	Description	Default
[337]	___/___	___/___/___	Power up	(7E / 052)
[338]	___/___	___/___/___	Software reset (Watchdog)	(7E / 069)
[339]	___/___	___/___/___	Test report	(7E / 055)
[340]	___/___	___/___/___	Future use	(00 / 000)
[341]	___/___	___/___/___	Winload log in	(7E / 047)
[342]	___/___	___/___/___	Winload log out	(7E / 049)
[343]	___/___	___/___/___	Installer in	(7E / 039)
[344]	___/___	___/___/___	Installer out	(7E / 043)

Special Arm: Sections [345] to [356]

Section	FB Data (Hex)	RC Data (Dec)	Description	Default
[345]	___/___	___/___/___	Auto arming	(7E / 001)
[346]	___/___	___/___/___	PC arming	(F6 / 001)
[347]	___/___	___/___/___	Late to close (auto arming)	(7E / 011)
[348]	___/___	___/___/___	No movement	(F6 / 001)
[349]	___/___	___/___/___	Partial arming	(7E / 004)
[350]	___/___	___/___/___	Quick arming	(F6 / 001)
[351]	___/___	___/___/___	Future use	(00 / 000)
[352]	___/___	___/___/___	Future use	(00 / 000)
[353]	___/___	___/___/___	Remote arming (ADM2)	(F6 / 001)
[354]	___/___	___/___/___	Closing delinquency	(F6 / 001)
[355]	___/___	___/___/___	Early to close by user	(7E / 013)
[356]	___/___	___/___/___	Late to close by user	(7E / 011)

Special Disarm: Sections [357] to [368]

Section	FB Data (Hex)	RC Data (Dec)	Description	Default
[357]	___/___	___/___/___	Cancel auto arm	(7E / 011)
[358]	___/___	___/___/___	Quick disarm	(76 / 001)
[359]	___/___	___/___/___	PC disarming	(76 / 001)
[360]	___/___	___/___/___	PC disarming after alarm	(7E / 017)
[361]	___/___	___/___/___	PC disarming cancel alarm	(7E / 017)
[362]	___/___	___/___/___	Future use	(00 / 000)
[363]	___/___	___/___/___	Future use	(00 / 000)

* = DGP-NE96 only

[364]	___/___	___/___/___	Future use	(00 / 000)
[365]	___/___	___/___/___	Remote disarm (ADM2)	(76 / 001)
[366]	___/___	___/___/___	Future use	(00 / 000)
[367]	___/___	___/___/___	Early to open by user	(7E / 014)
[368]	___/___	___/___/___	Late to open by user	(7E / 010)

Special Alarm: Sections [369] to [376]

Section	FB Data (Hex)	RC Data (Dec)	Description	Default
[369]	___/___	___/___/___	Emergency panic	(02 / 129)
[370]	___/___	___/___/___	Auxiliary panic	(04 / 129)
[371]	___/___	___/___/___	Fire panic	(00 / 129)
[372]	___/___	___/___/___	Recent closing	(7E / 026)
[373]	___/___	___/___/___	Police code	(19 / 130)
[374]	___/___	___/___/___	Zone shutdown	(46 / 130)
[375]	___/___	___/___/___	Duress	(03 / 129)
[376]	___/___	___/___/___	Keypad lockout	(7E / 029)

System Troubles: Sections [377] to [399]

Section	FB Data (Hex)	RC Data (Dec)	Description	Default
[377]	___/___	___/___/___	TLM fail*	(3E / 001)
[378]	___/___	___/___/___	AC fail*	(3A / 001)
[379]	___/___	___/___/___	Battery failure*	(3D / 001)
[380]	___/___	___/___/___	Auxiliary supply limit*	(3C / 001)
[381]	___/___	___/___/___	Bell limit*	(32 / 136)
[382]	___/___	___/___/___	Bell absent*	(32 / 135)
[383]	___/___	___/___/___	Clock loss*	(32 / 141)
[384]	___/___	___/___/___	Fire loop*	(20 / 130)
[385]	___/___	___/___/___	Network fault*	(32 / 131)
[386]	___/___	___/___/___	Module tamper*	(17 / 131)
[387]	___/___	___/___/___	ROM check error*	(32 / 139)
[388]	___/___	___/___/___	Module TLM*	(3E / 130)
[389]	___/___	___/___/___	Module fail to comm.*	(32 / 140)
[390]	___/___	___/___/___	Printer fault*	(32 / 142)
[391]	___/___	___/___/___	Module AC fail*	(3A / 012)
[392]	___/___	___/___/___	Module battery fail*	(3D / 012)
[393]	___/___	___/___/___	Module auxiliary limit*	(3C / 012)
[394]	___/___	___/___/___	Wireless transmitter battery low*	(3B / 151)

* = Includes the restore state

[395]	___/___	___/___/___	Wireless transmitter supervision*	(18 / 151)
[396]	___/___	___/___/___	Phone #1 fail to communicate*	(3E / 010)
[397]	___/___	___/___/___	Phone #2 fail to communicate*	(3E / 011)
[398]	___/___	___/___/___	Phone #3 fail to communicate*	(3E / 012)
[399]	___/___	___/___/___	Phone #4 fail to communicate*	(3E / 013)

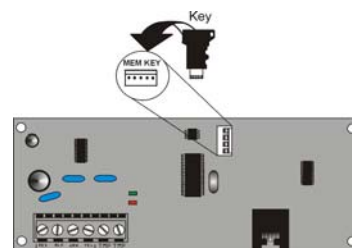
4.3 MEMORY CARD (PMC-3)

4.3.1 SECTION [500] DOWNLOAD MEMORY KEY TO DGP2-DVAC

Use this section to download the contents *from* the Memory Key to the DGP2-DVAC (Figure 3). To download the contents:

- 1) Insert the *Memory Key* (PMC-3) onto the DGP2-DVAC's connector labelled "MEM KEY".
- 2) Enter module programming mode and then enter section [500].
- 3) When the keypad emits a confirmation beep, remove the *Memory Key*.

Figure 3: To Download



4.3.2 SECTION [501] COPY DGP2-DVAC TO MEMORY KEY

Use this section to copy the contents of the DGP2-DVAC to the Memory Key (Figure 4). To copy the contents:

- 1) Insert *Memory Key* (PMC-3) onto the DGP2-DVAC's connector labelled "MEM KEY". Ensure the write protect jumper on the memory key is ON.
- 2) Enter module programming mode, then enter section [501].
- 3) After the confirmation beep, remove the *Memory Key*.
- 4) Remove the *Memory Key*'s jumper if you do not wish to accidentally overwrite its contents.

Figure 4: To Copy

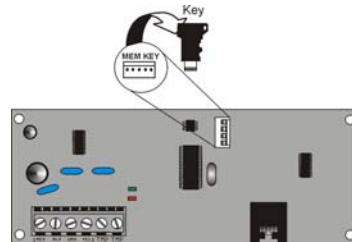
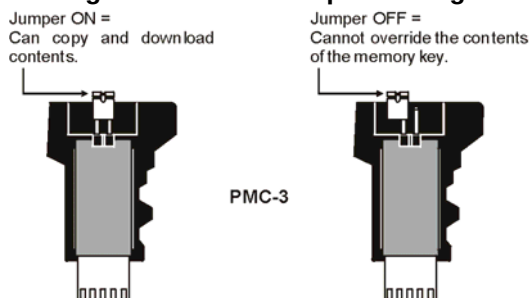


Figure 5: PMC-3 Jumper Settings



5.0 FUNCTION BYTE REFERENCE LISTS

The following tables list all possible alternative options for the DGP2-DVAC. Use the values in the Function Byte (FB) column to modify existing values in order to reflect varying installation scenarios. The corresponding reporting code can be a value determined by the installer. These function bytes can be used to reflect specific events, send messages or report changes about the physical environment. Examples of these may include:

- Panic alarms
- Activated water sprinklers
- Toxic gas emissions
- Hold ups
- Temperature changes
- Medical emergencies

For example you can change the default values for section **[006]** (normally used for an alarm on zone) and replace them with the alarm function byte such as 00 which corresponds to a fire message.



The Computer Message column includes messages the monitoring station will see upon reception of an event. The first function byte indicates the event, the second is its restore value.

5.1 ALARM FUNCTION BYTES

Function Byte	Printer Message	Computer Message	Function Byte	Printer Message	Computer Message
00	Fire	FA / FH 000-999	10	Heat	KA / KH 000-999
01	Sprinklr	SA / SH 000-999	11	24hrs	UA / UH 000-999
02	Panic	PA / PH 000-999	12	System	UA / UH 000-999
03	Hold up	HA / HH 000-999	13	Auxil.	UA / UH 000-999
04	Medical	MA / MH 000-999	14	Untyped	UA / UH 000-999
05	Emergen	QA / QH 000-999	15	-----	UA / UH 000-999
06	Burglar	BA / BH 000-999	16	24hrLat	TA / TR 000-999
07	DelayHA	BA / BH 000-999	17	Tamper	TA / TR 000-999
08	Delay	BA / BH 000-999	18	Supervi	UA / UH 000-999
09	Instant	BA / BH 000-999	19	BrgVerf	BV 000-999
0A	Interio	BA / BH 000-999	1A	-----	UA / UH 000-999
0B	InterHA	BA / BH 000-999	1B	-----	UA / UH 000-999
0C	Motion	BA / BH 000-999	1C	-----	UA / UH 000-999
0D	Water	WA / WH 000-999	1D	Test	UX / UR 000-999
0E	Freeze	ZA / ZH 000-999	1E	Unsecur	YY / UR 000-999
0F	Gas	GA / GH 000-999	1F	Cancel	OC / OC 000-999



The zone number of each event and its restore value will be printed in the form of "Alm/Rst Zn000-999".

5.2 TROUBLE FUNCTION BYTES

Function Byte	Printer Message	Computer Message	Function Byte	Printer Message	Computer Message
20	Fire	FT / FJ 000-999	30	Heat	KT / KJ 000-999
21	Sprinkl	ST / SJ 000-999	31	24hrs	UT / UJ 000-999
22	Panic	PT / PJ 000-999	32	System	UT / UJ 000-999
23	Hold up	HT / HJ 000-999	33	Auxil.	UT / UJ 000-999
24	Medical	MT / MJ 000-999	34	Untyped	UT / UJ 000-999
25	Emergen	QT / QJ 000-999	35	-----	UT / UJ 000-999
26	Burglar	BT / BJ 000-999	36	24hrLat	UT / UJ 000-999
27	DelayHA	BT / BJ 000-999	37	Tamper	UT / UJ 000-999
28	Delay	BT / BJ 000-999	38	Supervi	UT / UJ 000-999
29	Instant	BT / BJ 000-999	39	Expans.	ET / ER 000-999
2A	Interio	BT / BJ 000-999	3A	AC Cut	AT / AR 000-999
2B	InterHA	BT / BJ 000-999	3B	WirBat	XT / XR 000-999
2C	Motion	BT / BJ 000-999	3C	PwSupply	YP / YQ 000-999
2D	Water	WT / WJ 000-999	3D	SysLBat	YT / YR 000-999
2E	Freeze	ZT / ZJ 000-999	3E	Line	LT / LR 000-999
2F	Gas	GT / GJ 000-999	3F	ZNFault	UT / UJ 000-999



The zone number of each event and its restore value will be printed in the form of “Trbl/T_R Zn000-999” (for Trouble Function Bytes) or “Byp / Unb Zn000-999” (for Bypass Function Bytes).

5.3 BYPASS FUNCTION BYTES

Function Byte	Printer Message	Computer Message	Function Byte	Printer Message	Computer Message
40	Fire	FB / FU 000-999	50	Heat	KB / KU 000-999
41	Sprinkl	SB / SU 000-999	51	24 Hrs	UB / UU 000-999
42	Panic	PB / PU 000-999	52	System	UB / UU 000-999
43	Hold up	HB / HU 000-999	53	Auxil.	UB / UU 000-999
44	Medical	MB / MU 000-999	54	Untyped	UB / UU 000-999
45	Emergen	QB / QU 000-999	55	-----	UB / UU 000-999
46	Burglar	BB / BU 000-999	56	24hrLat	TB / TU 000-999
47	DelayHA	BB / BU 000-999	57	Tamper	TB / TU 000-999
48	Delay	BB / BU 000-999	58	Supervi	UB / UU 000-999
49	Instant	BB / BU 000-999	59	Group	UB / UU 000-999
4A	Interio	BB / BU 000-999	5A	-----	UB / UU 000-999
4B	InterHA	BB / BU 000-999	5B	-----	UB / UU 000-999
4C	Motion	BB / BU 000-999	5C	-----	UB / UU 000-999
4D	Water	WB / WU 000-999	5D	-----	UB / UU 000-999
4E	Freeze	ZB / ZU 000-999	5E	-----	UB / UU 000-999
4F	Gas	GB / GU 000-999	5F	-----	UB / UU 000-999

5.4 SUPERVISORY FUNCTION BYTES

Function Byte	Printer Message	Computer Message	Function Byte	Printer Message	Computer Message
60	Fire	FS / FJ 000-999	6B	InterHA	BS / BJ 000-999
61	Sprinkl	SS / SJ 000-999	6C	Motion	BS / BJ 000-999
62	Panic	PS / PJ 000-999	6D	Water	WS / WJ 000-999
63	Hold Up	HS / HJ 000-999	6E	Freeze	ZS / ZJ 000-999
64	Medical	MS / MJ 000-999	6F	Gas	GS / GJ 000-999
65	Emergen	QS / QJ 000-999	70	Heat	KS / KJ 000-999
66	Burglar	BS / BJ 000-999	71	24hrs	US / UJ 000-999
67	DelayHA	BS / BJ 000-999	72	System	US / UJ 000-999
68	Delay	BS / BJ 000-999	73	Auxil.	US / UJ 000-999
69	Instant	BS / BJ 000-999	74	Untyped	US / UJ 000-999
6A	Interio	BS / BJ 000-999	75	-----	US / UJ 000-999



The zone number of each event and its restore value will be printed in the form of "Sup/S_R Zn000-999".

5.5 OPENING AND CLOSING FUNCTION BYTES

Function Byte	Printer Message	Computer Message
76	Open / Close User 000-999	OP / CI 000-999
77	Open / Close Group 000-999	OG / CG 000-999

5.6 MISCELLANEOUS FUNCTION BYTES

Function Byte	Printer Message	Computer Message
78	By user 000-999	No transmission
79	Control Act / Rst Pt 000-999	RC / RO 000-999
7A	Service Req / Req Zn 000-999	YX / YX 000-999
7B	Dealer ID /ID 000-999	DU / DU 000-999
7C	User Msg / Msg Zn 000-999	CE / CE 000-999
7D	Instal Msg / Msg Zn 000-999	DU / DU 000-999
7E	See "Specific Message Function Byte"	
7F	Reserved	

5.7 SPECIFIC RC DATA FUNCTION BYTE 7E

Since there is no zone or user number which needs to be programmed for the messages attributed to function byte 7E the RC data refers to the printed message transmitted to the computer. The zone number to the computer for each event is always 000.

RC Data	Printer Message	Computer Message	RC Data	Printer Message	Computer Message	RC Data	Printer Message	Computer Message
001	Automat closing	CA	026	Alm on exit	UA	051	Remote Reset	RN
002	Automat open	OA	027	Fire test begin	FI	052	Power up	RR
003	Closing extend	CE	028	Fire test end	FK	053	Data lost	RT
004	Partial closing	CG	029	User cd tamper	JA	054	Automatic test	RP
005	Forced closing	CF	030	Log threshold	JL	055	Manual test	RX
006	Forced arming	CW	031	Log overthrow	JO	056	Test start	TS
007	Fail to close	CI	032	Schedul execute	JR	057	Test end	TE
008	Fail to open	OI	033	Schedul change	JS	058	Printer papr in	VI
009	Late close	CJ	034	Time changed	JT	059	Printer papr out	VO
010	Late open	OJ	035	Date changed	JD	060	Printer restore	VR
011	Late to close	OT	036	Holiday changed	JH	061	Printer trouble	VT
012	Late to open	CT	037	User cd changed	JV	062	Printer test	VX
013	Early close	CK	038	User cd deleted	JX	063	Printer on line	VY
014	Early open	OK	039	Local Prg begin	LB	064	Printer off line	VZ
015	F. arm perimeter	NF	040	Local Prg denied	LD	065	Extra point	XE
016	Perimeter arm	NL	041	Local Prg succes	LS	066	Extra RF point	XF
017	Disarm from alm	OR	042	Local Prg fail	LU	067	Sensor reset	XI
018	Access closed	DC	043	Local Prg ended	LX	068	Forced point	XW
019	Access denied	DD	044	Listen-In begin	LF	069	Watchdog reset	YW
020	Access granted	DG	045	Listen-In ended	LE	070	Service required	YX
021	Access lockout	DK	046	Remote P.C.F	RA	071	Status report	YY
022	Access Open	DO	047	Remote P. begin	RB	072	none	
023	Access trouble	DT	048	Remote P. denied	RD			
024	Door forced	DF	049	Remote P. succes	RS			
025	Door station	DS	050	Remote P. fail	RU			

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