DL100
DOWNLOADABLE CONTROL COMMUNICATOR
INSTALLATION MANUAL

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DAS DL100
INSTALLATION MANUAL

General Description

The Das DL100 is a versatile 6 zone up/downloadable security control , with a built-in digital communicator. Its microcomputer design gives some of the most versatile, yet easy to use features available for most security applications today. Each of the six zones can be programmed to be one of nine different types including 24 Hour, Interior Follower, and Day zone. Each zone is individually annunciated and can be bypassed from the code pad. See page 11 for a description of all zone types.

Read the OPERATORS MANUAL before you begin the installation for the best overall description of how the DAS DL100 functions. After installation of the security system, complete the information on page 1 of the operators manual and explain the system operation to all security system owners/operators.

Standard Parts List.

The DAS DL100 is shipped with the parts listed below.

QUANTITY	PART DESCRIPTION	PART NO.
1	MASTER CONTROL PANEL W / O CODE PAD	FS4657
10	3.3K, 1/2 WATT E.O.L. RESISTORS	EOL-33
1	TELEPHONE LEAD	FS4596
1	INSTALLATION MANUAL	IM-DL100
1	OPERATORS MANUAL	OM-DL100

Optional Parts List.

The following parts are available for use with the DAS DL100.

OPTIONAL PARTS DESCRIPTION	PART NO.
6 LED REMOTE CODE PAD	FS4623
LCD ALPHA NUMERIC DISPLAY CODE PAD	FS4534
AC POWER SUPPLY 16.5V 1.5 AMP PLUG PACK	FS4402
PROGRAMMER WITH DIGITAL NUMERIC DISPLAY	FS4597
SMART PROGRAMMER WITH LCD DISPLAY	FS4610
12VDC 6AH BATTERY	FS4312
DOWNLOADING SOFTWARE PACKAGE	FS4532

FEATURE DEFINITIONS

Secondary Exit Delay
Used most often for garage doors, this zone type is a second entry/exit delay zone that has its own delay times, independent of the standard entry/exit delay zone.

Auto Isolate Enable
When enabled in location 197, the DL-100 can be armed with zones violated, lacking a green "READY" light on the code pad. Under this condition, all zones that are not secure at the end of the exit delay will become isolated. All zones that become secured before the end of the exit delay will become active in the system.

Partial Arm (Entry Guard)
This unique home level arming allows you to remain inside your home and only arm areas that are not occupied. For example, Night Arming.

Group Isolate
Zones can be programmed to isolate as a group when the [*] button is pressed during the exit delay. This feature is enabled in Locations 244-249: **Assigning Special Characteristics For Zones** beginning on page xx of this manual.

Dynamic Battery Test
When enabled in location 203, the DL-100 can be programmed to perform a dynamic battery test for a selected duration, at the preselected time.

Quick Arm
If programmed in location 139, the DL-100 can be armed by entering a one button "Quick Arm" code which is [3].

Auto Arming
If programmed in location 202, the DL-100 will automatically arm the system at a specific time, (locations 198-201), if it has not already been armed by a system user.

Chime Feature
If chime zones are selected, pressing the [1] from the code pad will enable this feature.

Smoke Detector Reset
If programmed in location 143, the [#] key on the code pad can be used to reset smoke detectors.

Auxiliary Outputs
The DL-100 has four auxiliary outputs that can be activated by ten different conditions (see locations 145-148).

Loop Response Time
The DL-100 has a programmable loop response time from 20mS up to 500mS (see location 180).

Answering Machine Defeat
The DL-100 has the ability to defeat an answering machine to receive a call for up/downloading (see location196).

Competitor Lockout
Through downloading, local programming can be "locked out" on the DL-100. This eliminates the ability to change programming data at the local level (see location 281).

TERMINAL DRAWING & SPECIAL NOTES

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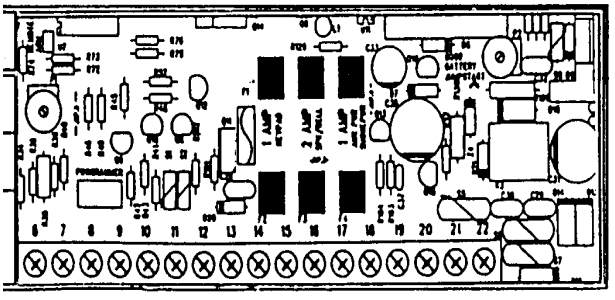
TERMINAL DESCRIPTION

TERMINAL NO.	DESCRIPTION
1	Programmable Auxiliary Output Terminal. Current limited to 250 micro amps positive and 200 mA negative. This Auxiliary output is normally used to connect the negative lead of the strobe. The positive lead of the strobe can be connected to any of the positive terminals.
2-4	Programmable Auxiliary Output Terminals. Current limited to 250 micro amps positive and 20 mA negative.
5	Connect one side of zone 1 loop. The other side of loop to common terminal 6. Open or short causes alarm.
6	Common (-) Terminal
7	Connect one side of zone 2 loop. The other side of loop to common terminal 6. Open or short causes alarm.
8 - 16	See Terminal Drawing and repeat the above sequence for zones 3-6.
17,18,19,20	Connect code pad wires as follows; yellow to terminal 17, green to terminal 18, black to terminal 19, red to terminal 20. 70 metres maximum run with 7/020 cable, 120 metres maximum run with 14/020 cable. Home run cable to each code pad.
21(-)& 22(+)	Siren driver output to speaker(s), (speaker rating should be 15 watt at 8 or 16 ohm, or 30/40 watt at 4, 8, or 16 ohms). If siren driver disable is selected in location 132, output becomes voltage output, 12VDC, 1 Amp maximum load.
23(-)& 24(+)	Smoke detector power 12VDC, 100 mA maximum (For those jurisdictions which allow the Priority zone to be used with smoke detectors.)
25(-)& 26(+)	Auxiliary Power regulated 12VDC 500 mA maximum.
27	Earth Ground, connect to a cold water pipe or 6 to 10 foot driven rod.
28 & 29	AC input, connect a 16.5V 1.5 Amp Plug Pack.
Battery leads	Standby battery leads, black (-) and red (+) connect to a 12VDC lead acid rechargeable battery. Do not connect to a dry cell battery.

FUSE DESCRIPTION

FUSE NO.	DESCRIPTION
F1	1 AMP / Code pad
F2	2 AMP / Siren Driver
F3	1 AMP / Aux Power & Smoke Detector Power



PROGRAMMING

The DL100 can be placed into the "Program" mode by use of the new **FS4610 Smart Programmer**, or the original FS4597 programmer, or for Code Pad programming, by utilising the FS4534 LCD Code Pad (the preferred method) or the FS4623 LED Code Pad. These methods are described below.

Using a Programmer

The FS4610 Smart Programmer has been designed to make programming of the DL100 simpler as well as more efficient for users. The FS4610 programmer features up to 4 resident standard programs to allow for separate system standardisation. Plug the optional model FS4610 programmer into the 4-pin male outlet marked "program" on the DL100 P.C. Board.

Using The LCD Code Pad

The most straightforward method of Code Pad programming is to utilise the FS4534 LCD Code Pad in the programming mode. To access the programming mode enter [C] [0] [0], followed by the four digit "Go To Program" access code which is factory default [9] [0] [5] [0] (this code can be reprogrammed), and follow the Code Pad prompts.

Using The LED Code Pad

The DL100 can also be programmed by the standard binary method of Code Pad programming described below. When the FS4623 LED Code Pad is used for programming, enter the factory default four digit "Go To Program" access code of [9] [7] [1] [3]. NOTE: The DL100 must be disarmed to gain access to programming with this code. After entry of this code, the DL100 will be in the "Program" mode, and the yellow LED's will display the data in location 000. The data is displayed using a Binary system. With this system the yellow zone 1 LED equals "1" when illuminated. The zone 2 LED equals "2" when illuminated. The zone 3 LED equals "4" when illuminated. The zone 4 LED equals "8" when illuminated. Thus if the data in location 000 is "9", the LED for zone 1 (=1) and zone 4 (=8) would be illuminated. By adding the two values together, (1+8=9) you would determine that the data in location 000 is "9". If the data in location 000 is "6", the LEDs for zone 2 (=2) and zone 3 (=4) would be added (2+4=6) indicating the data in that location to be "6". If no LED's are illuminated, the location contains a "0". To advance from location 000 through 255, press the [#] key. To go to a specific location, press the location number followed by the [#] key. The yellow LED's will then display the data in that location. Data is changed by entering a number between 0 and 15, followed by [*] (* = data enter). Review the examples in figure 1 on the following page.

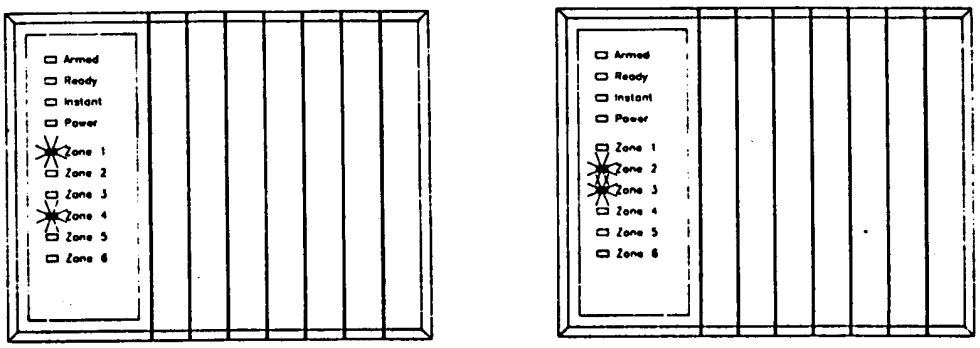
Important Function Codes

[9]-[5]-[0]-[#] When in the program mode, this function code can be used to write original factory default codes into the DL100.
[9]-[3]-[0]-[#] This function code is used to exit the programming mode after it was accessed via the Code Pad.

! ! ! IMPORTANT ! ! !

Before programming the DL100 for the first time, enter the "Go To Program Code" [9][7][1][3] from the Code Pad, followed by the factory default function code [9][5][0][#]. The panel defaults will now match this installation manual and you may begin programming the control panel. When using an optional plug-in programmer which automatically enters the programming mode, the only entry necessary is [9][5][0][#] to load factory defaults.

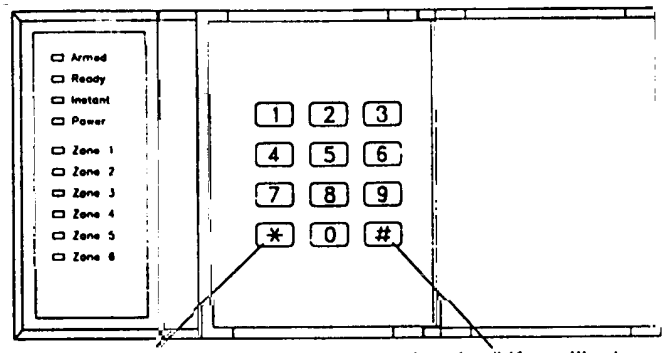
PROGRAMMING EXAMPLE - FIGURE 2



ZONE 1 LED = 1
ZONE 4 LED = 8
} DATA = 9

ZONE 2 LED = 2
ZONE 3 LED = 4
} DATA = 6

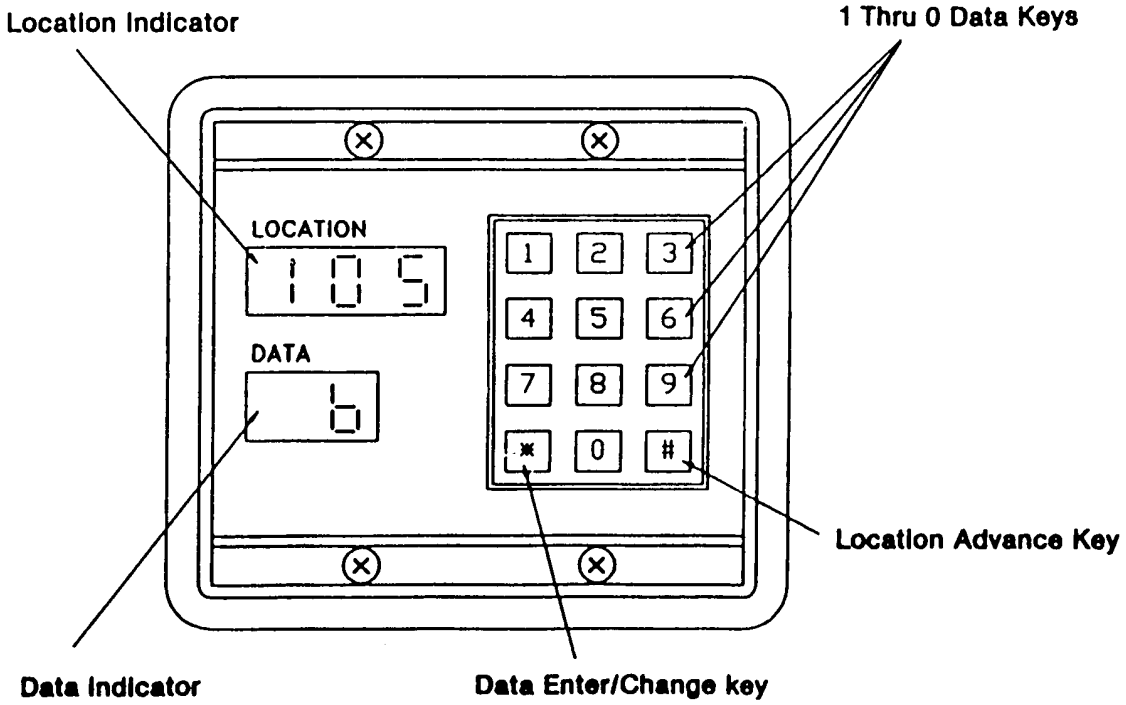
No LED's Illuminated = 0



To change or enter data in location shown, enter data and follow by the * Key.

Pressing the # Key will advance to next location, or specific locations can be reached by pressing location number followed by the # Key.

FS4597 PROGRAMMER - FIGURE 3



PROGRAMMING THE COMMUNICATOR

THIS PAGE DESCRIBES ALL THE LOCATIONS THAT MUST BE PROGRAMMED IN ORDER FOR THE DAS DL100 TO FUNCTION AND REPORT TO A CENTRAL STATION. OTHER OPTIONS MAY BE SELECTED BY FOLLOWING THE ADDITIONAL PROGRAMMING INSTRUCTIONS.

LOCATIONS 032-047: PROGRAMMING THE PRIMARY TELEPHONE NUMBER

The primary telephone number is programmed in successive locations beginning with location 032. Any zero (0) within the telephone number, must be programmed as a "10". A "0" indicates the end of the phone number. Delays of four seconds can be programmed at any point in the phone number by programming a "13" in the appropriate location. If a "*" or "#" are required in your phone number then a "11" = "*" and "12" = "#". If tone dialling is desired, program a "15" in the location where tone dialling should begin. If the entire number should be tone dialling, program a "15" in location 032. Example: Phone number 02 7244211 with touch-tone dialling would be entered as [15]][*][#][10][*][#][2][*][#][7][*][#][2][*][#][4][*][#][4][*][#][2][*][#][1][*][#][1][*][#][0][*][#]. The "15" selects touch-tone dialling, and the "0" ends the phone number.

LOCATIONS 048-051:PROGRAMMING THE ACCOUNT CODE FOR THE PRIMARY PHONE NUMBER

The account code sent when the PRIMARY phone number is dialled is programmed in locations 048-051. Any zero (0) within the account code must be programmed as a "10", and the communicator will report a zero (0). If the account code is three digits long, use locations 048, 049, and 050. Program a "0" to indicate the end of the account code. Example: Account number of 2090 would be entered as [2][*][#] [10][*][#] [9][*][#] [10][*][#] [0][*][#] (starting at location 48). Account code of 209 for low speed would be entered as [2][*][#] [10][*][#] [9][*][#] [0][*][#] (starting at location 48).

LOCATION 052: PROGRAMMING COMMUNICATOR FORMAT FOR THE PRIMARY PHONE NUMBER

Location 052 contains the communicator format used to transmit to the receiver connected to the primary phone number. Consult the instructions for your central station receiver to determine which format is compatible. To select Ademco High Speed, program a "4" in location 052. Contact I.D requires a "1" in this location. If you need another format, choose from those listed in the format table located on the following page, and program the data in location 052. If this location contains a "0", the built-in communicator will be disabled, and the DAS DL100 will function as a local only control.

LOCATION 053: RESERVED FOR FUTURE USE

LOCATIONS 054-069: PROGRAMMING THE SECONDARY TELEPHONE NUMBER

Locations 054-069 contain the secondary telephone number. This number allows certain communicator reports to go to another number, or to cause the communicator to dial a second number if the primary number does not respond after the number of attempts programmed into location 134 have been tried unsuccessfully. The same number of attempts are made with the back-up number. Tone dialling and delay instructions are the same as for the primary number.

LOCATIONS 070-074: RESERVED FOR FUTURE USE

COMMUNICATOR FORMAT TABLE

DATA	FORMAT	DESCRIPTION
0	**LOCAL ONLY**	COMMUNICATOR IS DISABLED
1	**ADEMCO CONTACT ID**	DTMF FORMAT
2	**ADEMCO 4/2 EXPRESS**	DTMF FORMAT
3	**PAGER FORMAT**	REPORTS IN 4 + 3 FORMAT OR DOMESTIC DIALLING
4	**ADEMCO HIGH SPEED**	DTMF FORMAT
5	**RADIONICS EXTENDED SLOW**	1800Hz TRANSMITTAL 2300Hz HANDSHAKE 20 PPS HEX EXT DOUBLE ROUND
6	**CADDX MODEM**	PROPRIETARY
7	**RADIONICS EXTENDED FAST**	1800Hz TRANSMITTAL 2300Hz HANDSHAKE 40 PPS HEX EXT DOUBLE ROUND
8	**RADIONICS EXTENDED FAST**	1800Hz TRANSMITTAL 1400Hz HANDSHAKE 40 PPS HEX EXT DOUBLE ROUND
9	**RADIONICS EXT FAST W/PARITY**	1800Hz TRANSMITTAL 2300Hz HANDSHAKE 40 PPS HEX EXTENDED
10	**NOT USED**	
11	**ADEMCO/SILENT KNIGHT SLOW**	1900Hz TRANSMITTAL 1400Hz HANDSHAKE 10 PPS DOUBLE ROUND PARITY
12	**SILENT KNIGHT 4+2 FAST**	1900Hz TRANSMITTAL 1400Hz HANDSHAKE 20 PPS DOUBLE ROUND PARITY
13	**SESCOA/FRANKLIN FAST**	1800Hz TRANSMITTAL 2300Hz HANDSHAKE 20 PPS HEX DOUBLE ROUND
14	**SIA**	FSK FORMAT
15	**CUSTOM FORMAT**	SELECT YOU OWN FORMAT FOR NON STANDARD BASE STATIONS. REF:- TO YOUR DAS BRANCH FOR MORE INFORMATION.

LOCATIONS 000-003: PROGRAMMING THE MASTER ARM/DISARM CODE

Locations 000-003 contain master arm/disarm code (user number 1). Location 00 contains the first digit of the code; location 003 contains the fourth digit of the code. THE CODE MUST CONTAIN FOUR (4) DIGITS. The master code can then be used in the run mode to enter arm/disarm codes 1-7 (see page 40, ENTERING AND CHANGING THE MASTER CODE). The factory default code is [1][2][3][4].

LOCATIONS 004-023: PROGRAMMING THE ARM/DISARM CODE FOR USERS 2 THRU 6

Locations 004-023 contain the arm/disarm codes for user numbers 2 thru 6. Location 004 contains the first digit of the code #2, and location 007 contains the fourth digit of code #2. THESE CODES MUST CONTAIN FOUR (4) DIGITS. To disable a code, PROGRAM a "15" as the first digit of the code. These codes can be changed in the RUN mode using the master code (see page 38, ENTERING AND CHANGING AUXILIARY CODES).

LOCATIONS 024-027: PROGRAMMING THE DURESS CODE OR USER 7

Locations 024-027, contain the arm/disarm code for Duress or for user number 7. Duress capability is enabled, by programming a communicator code in locations 086-087. If locations 086-087 are left unprogrammed, user number 7 will act as a standard user code.

LOCATIONS 028-031: PROGRAMMING THE "GO TO PROGRAM" ACCESS CODE

Locations 028-031, contain the "Go To Program" access code. Location 028 contains the first digit of the code and location 031 contains the fourth digit of the code. THE CODE MUST CONTAIN FOUR (4) DIGITS. With the DAS DL100 disarmed, the "Go To Program" access code can be used to enter the program mode. To disable the "Go To Program" access code, program a "15" in location 028. The factory default setting is [9][7][1][3].

LOCATIONS 032-074: SEE PAGE 8

LOCATION 075: PROGRAMMING THE ENTRY DELAY TIME

Location 075 contains the number of 10 Second increments in the entry delay. The entry delay can be programmed in 10 second increments from 10 to 150 seconds ("1" = 10 seconds through "15" = 150 seconds). For example, programming a "2" in this location will produce an entry delay of 20 seconds. (Note: A "0" entry is treated as 0 seconds). Programming a "6" in this location will produce an entry delay of 60 seconds. Factory default is 30 seconds.

LOCATION 076: PROGRAMMING THE EXIT DELAY TIME

Location 076 contains the number of 10 Second increments in the exit delay. The exit delay can be programmed in 10 second increments from 10 to 150 seconds ("1" = 10 seconds through "15" =150 seconds). For example, programming a "2" in this location will produce an exit delay of 20 seconds. (Note: A "0" entry is treated as 0 seconds). Programming a "6" in this location will produce an exit delay of 60 seconds. Factory default is 60 seconds.

LOCATION 077: PROGRAMMING THE SIREN SHUTDOWN/RECYCLE TIMEOUT

Location 077 contains the number of 2 minute increments in the automatic cutoff time. The automatic cutoff time can be programmed in 2 minute increments from 2 to 30 minutes ("1" = 2 min thru "15" = 30 min). For example, programming a "2" in this location will produce an automatic cutoff time of 4 minutes. Programming a "6" in this location will produce an automatic cutoff time of 12 minutes.

LOCATIONS 078-085: PROGRAMMING THE ZONE TYPES

Locations 078 through 085 contain a number identifying the characteristics of each of the 8 zones. Location 078 corresponds to zone 1 and location 085 corresponds to zone 8. Each zone will factory default according to the programming worksheet. To program zone characteristics other than the default values, program a number from "1" to "9" based on the characteristics in the list below.

NUMBER	ZONE CHARACTERISTICS DESCRIPTION
"1"	**DAY ZONE** - A trip on a Day zone will produce an instant alarm when armed and activate the code pad sounder when disarmed.
"2"	**24 HOUR -** A trip on a 24 Hour zone will produce an instant alarm when the DAS DL100 is armed or disarmed.
"3"	**ENTRY/EXIT** - A trip will start entry delay. The lack of a trip during exit delay will enable the "Automatic Bypass" or "Instant" mode if so programmed.
"4"	**INTERIOR DELAY** - A trip on Interior Delay zone will initiate an entry delay. It will be ignored during exit delay and when disarmed . This zone type is used with the "Automatic Bypass/Instant" mode.
"5"	**HANDOVER** - Interior zone that follows delay zones. It can be bypassed before arming, or automatically bypassed in the "Automatic Bypass/Instant" mode if so programmed.
"6"	**INSTANT** – Produces an instant alarm when tripped in the armed mode, ignored when disarmed.
"7"	**24 HOUR SILENT** - A trip on a 24 hour silent zone will communicate to the central station when the DAS DL100 is armed or disarmed.
"8"	**PRIORITY** - A short on a Priority zone type will communicate to the central station when the DAS DL100 is armed or disarmed. Priority zones cannot be bypassed.
"9"	**SECONDARY DELAY** - A secondary delay zone works like an interior delay zone but has its own independent delay time (see locations 178-179).

NOTE: WHEN PROGRAMMING THE FOLLOWING COMMUNICATOR CODES, A "10" MUST BE PROGRAMMED IN ORDER TO REPORT A ZERO (0).

LOCATION 086-087: PROGRAMMING THE DAS DL100 FOR DURESS CODE CAPABILITY

The DAS DL100 has the ability to report a duress code when the system is armed or disarmed with user code number 7 and a duress communicator code is programmed in locations 086-087. Location 086 contains the standard digit, and location 087 contains the extended digit. When using Ademco High Speed, program a one (1) in the first location to enable this report, a "1555 5555 1" Duress is reported. When contact I.D is selected, program the extended or the second location with the required event code from appendix 1 to enable this report event. Programming a "10" in location 87 will report an event "121 - Duress". The Open/Close report will accompany the Duress report complete with the user number to indicate that an Open or Close was preformed under Duress. No restore code is reported for this event. If both locations are "0", the duress capability is disabled and user code number 7 can only be used as a standard arm/disarm code.

LOCATION 088-089: PROGRAMMING FOR AUXILIARY 1, [1] & [3] DOUBLE KEYPRESS

The DAS DL100 has the ability to report an Auxiliary 1 code and activate the Priority siren each time the [1] and [3] keys are pressed simultaneously on the code pad. The desired reporting code is programmed in locations 088-089. Location 088 contains the standard digit, and location 089 contains the extended digit. When using Ademco High Speed, program a one (1) in the first location to enable this report, a "1555 5555 1" Duress is reported. When contact I.D is selected, program the extended or the second location with the required event code from appendix 1 to enable this report event. Programming a "1" in location 89 will report an event "110 - Fire". If activated, the siren can be silenced by entering any arm/disarm code. No restore code is reported for this event. If both locations are "0", the Auxiliary 1 double keypress is disabled.

LOCATION 090-091: PROGRAMMING FOR AUXILIARY 2, [4] & [6] DOUBLE KEYPRESS

The DAS DL100 has the ability to report an Auxiliary 2 code and activate the pulsing buzzer each time the [4] and [6] keys are pressed simultaneously on the code pad. The desired Auxiliary 2 code is programmed in locations 090-091. Location 090 contains the standard digit, and location 091 contains the extended digit. When using Ademco High Speed, program a one (1) in the first location to enable this report, a "1555 5555 1" Duress is reported. When contact I.D is selected, program the extended or the second location with the required event code from appendix 1 to enable this report event. Programming a "11" in location 91 will report an event "100 - Medical". If activated, the code pad sounder can be silenced by entering any Arm/Disarm code. No restore code is reported for this event. If both locations are "0", the Auxiliary 2 double keypress is disabled.

LOCATION 092-093: PROGRAMMING FOR Code pad PANIC, [*] & [#] DOUBLE KEYPRESS

The DAS DL100 has the ability to report a Code pad panic code and activate the Burg siren each time the [*] and [#] keys are pressed simultaneously on the code pad. The desired Code pad panic code is programmed in locations 092-093. Location 092 contains the standard digit, and location 093 contains the extended digit. When using Ademco High Speed, program a one (1) in the first location to enable this report, a "1555 5555 1" Duress is reported. When contact I.D is selected, program the extended or the second location with the required event code from appendix 1 to enable this report event. Programming a "2" in location 93 will report an event "120 - Code Pad Panic". If activated, the siren can be silenced by entering any Arm/Disarm code. No restore code is reported for this event. If both locations are "0", the Code pad panic double keypress is disabled.

LOCATION 094-095: PROGRAMMING THE CODE PAD TAMPER FEATURE

The DAS DL100 has an optional tamper feature that, when enabled, will lock out the code pads for 1 minute if 30 random keypresses are made without producing a valid code. The desired tamper code should be programmed in locations 094-095. If the control is not programmed for local only, the tamper will be communicated. Location 094 contains the standard digit, and location 095 contains the extended digit. When using Ademco High Speed, program a one (1) in the first location to enable this report ,a zone 8 alarm "5555 5551 7" will be reported. When contact I.D is selected, program a one (1) in the extended or the second location to enable this report, an event "137 - Code Pad Tamper" will be reported. No restore code is reported for this event. If both locations are "0", the tamper feature will not be enabled or reported.

LOCATION 096-097: PROGRAMMING TO REPORT DOWNLOADING COMPLETE

Locations 096-097 contain the communicator report, sent each time a download session has been completed. The report will come in, after a disconnection has been made from a downloading session. Location 096 contains the standard communicator code, and location 097 contains the extended communicator code. When using Ademco High Speed, program a one (1) in the first location to enable this report, a "5515 5555 6" is reported. When contact I.D is selected, program a one (1) in the extended or the second location to enable this report, an event "412 - Download Complete" will be reported. If locations 096-097 are "0", this report is disabled.

LOCATION 098-099: PROGRAMMING FOR AUTOTEST REPORTS

The DAS DL100 has the ability to send autotest reports at intervals from 1 to 15 days. Locations 098-099 contain the communicator codes sent for autotest. Location 098 contains the standard communicator code, and location 099 contains the extended communicator code. When using Ademco High Speed, program a one (1) in the first location to enable this report, a "5555 5555 9" is reported. When contact I.D is selected, program a one (1) in the extended or the second location to enable this report, an event "602 - Autotest" will be reported. If locations 098-099 are "0", autotest is disabled.
(**NOTE:** WHEN USING AUTOTEST, LOCATIONS 152-166 MUST BE PROGRAMMED.)

LOCATION 100-101: RESERVED FOR FUTURE USE

LOCATION 102: PROGRAMMING TO REPORT CLOSING

The DAS DL100 has the ability to report a closing code each time the control is armed. Program a "1" in this location to enable this report. When using a one button "Quick Arm" code and when using the remote arming input, the user number one (1) is reported. The closing report will not be initiated until the end of the exit delay. When Ademco high speed is selected a "U444 4444 4" event is reported. When Contact I.D. is selected an event "401 - Open/Close" is reported. If this location contains a "0", closing will not be reported.

LOCATION 103: PROGRAMMING TO REPORT OPENINGS

The DAS DL100 has the ability to report an opening code each time the control is disarmed. Program a "1" in this location to enable this report. When using the remote arming input, the user number one (1) is reported. When Ademco high speed is selected a "U222 2222 2" event is reported. When Contact I.D. is selected an event "401 - Open/Close" is reported. If this location contains "0", openings will not be reported.

LOCATION 104-105: PROGRAMMING THE COMMUNICATOR CODE FOR ZONE 1

Locations 104-105 contain the communicator code to be reported each time zone 1 creates an alarm. Location 104 contains the standard digit, and location 105 contains the extended digit. When using Ademco High Speed, program a one (1) in the first location to enable this report, a "1555 5555 7" is reported. When contact I.D is selected, program the extended or the second location with the required event code from appendix 1 to enable this report event, programming a three (3) in the extended or the second location, will select an event "130 - Burglary" to be reported. The data in the standard location or first location must be left at default or changed to the zone number that is to be reported. If locations 104-105 are "0", this report is disabled.

LOCATION 106-107: PROGRAMMING THE COMMUNICATOR CODE FOR ZONE 2

Locations 106-107 contain the communicator code to be reported each time zone 2 creates an alarm. Location 106 contains the standard digit, and location 107 contains the extended digit. When using Ademco High Speed, program a one (2) in the first location to enable this report, a "5155 5555 7" is reported. When contact I.D is selected, program the extended or the second location with the required event code from appendix 1 to enable this report event, programming a three (3) in the extended or the second location, will select an event "130 - Burglary" to be reported. The data in the standard location or first location must be left at default or changed to the zone number that is to be reported. If locations 106-107 are "0", this report is disabled.

LOCATION 108-109: PROGRAMMING THE COMMUNICATOR CODE FOR ZONE 3

Locations 108-109 contain the communicator code to be reported each time zone 3 creates an alarm. Location 108 contains the standard digit, and location 109 contains the extended digit. When using Ademco High Speed, program a one (3) in the first location to enable this report, a "5515 5555 7" is reported. When contact I.D is selected, program the extended or the second location with the required event code from appendix 1 to enable this report event, programming a three (3) in the extended or the second location, will select an event "130 - Burglary" to be reported. The data in the standard location or first location must be left at default or changed to the zone number that is to be reported. If locations 108-109 are "0", this report is disabled.

LOCATION 110-111: PROGRAMMING THE COMMUNICATOR CODE FOR ZONE 4

Locations 110-111 contain the communicator code to be reported each time zone 4 creates an alarm. Location 110 contains the standard digit, and location 111 contains the extended digit. When using Ademco High Speed, program a one (4) in the first location to enable this report, a "5551 5555 7" is reported.. When contact I.D is selected, program the extended or the second location with the required event code from appendix 1 to enable this report event, programming a three (3) in the extended or the second location, will select an event "130 - Burglary" to be reported. The data in the standard location or first location must be left at default or changed to the zone number that is to be reported. If locations 110-111 are "0", this report is disabled

LOCATION 112-113: PROGRAMMING THE COMMUNICATOR CODE FOR ZONE 5

Locations 112-113 contain the communicator code to be reported each time zone 5 creates an alarm. Location 112 contains the standard digit, and location 113 contains the extended digit. When using Ademco High Speed, program a one (5) in the first location to enable this report, a "5555 1555 7" is reported. When contact I.D is selected, program the extended or the second location with the required event code from appendix 1 to enable this report event, programming a three (3) in the extended or the second location, will select an event "130 - Burglary" to be reported. The data in the standard location or first location must be left at default or changed to the zone number that is to be reported. If locations 112-113 are "0", this report is disabled.

LOCATION 114-115: PROGRAMMING THE COMMUNICATOR CODE FOR ZONE 6

Locations 114-115 contain the communicator code to be reported each time zone 6 creates an alarm. Location 114 contains the standard digit, and location 115 contains the extended digit. When using Ademco High Speed, program a one (6) in the first location to enable this report, a "5555 5155 7" is reported. When contact I.D is selected, program the extended or the second location with the required event code from appendix 1 to enable this report event, programming a three (3) in the extended or the second location, will select an event "130 - Burglary" to be reported. The data in the standard location or first location must be left at default or changed to the zone number that is to be reported. If locations 114-115 are "0", this report is disabled.

LOCATION 116-119: RESERVED FOR FUTURE USE

LOCATION 120-121: PROGRAMMING TO REPORT AC POWER LOSS

The DAS DL100 has the ability to report an AC power failure code when AC power is lost. This report can be immediate, or delayed depending on the information programmed in location 150 (AC POWER LOSS DELAY). The desired AC failure mode should be programmed in locations 120-121. Location 120 contains the standard digit, and location 121 contains the extended digit. When using Ademco High Speed, program a one (1) in the first location to enable this report, a "1555 5555 6" is reported. When contact I.D is selected, program a one (1) in the extended or the second location to enable this report, an event "301 - A.C. Loss" will be reported. A.C Loss will only report when the A.C power has been disconnected for period equal to the minutes programmed in location 150. If both locations are "0", AC power failures will not be reported.

LOCATION 122-123: PROGRAMMING TO REPORT LOW BATTERY

The DAS DL100 has the ability to report a low battery code when AC power has been lost and the battery has discharged down to 10.3 volts. The desired low battery code is programmed in locations 122-123. Location 122 contains the standard digit, and, location 123 contains the extended digit. When using Ademco High Speed, program a one (1) in the first location to enable this report, a "5155 5555 6" is reported. When contact I.D is selected, program a one (1) in the extended or the second location to enable this report, an event "302 - Low Battery" will be reported. Low battery will only report when the A.C power is disconnected and the battery voltage drops below 10.2v D.C.. If both locations are "0", low battery will not be reported.

LOCATION 124: PROGRAMMING FOR PRIORITY ZONE TROUBLE REPORTING

The DAS DL100 has the ability to report a trouble code each time a Priority zone opens. The desired trouble code is programmed in location 124. When using Ademco High Speed, program a one (1) in this location to enable this report. A one (1) will be displayed for the channel corresponding to the zone in Trouble alarm. E.G, "5155 5555 5" will be reported for zone two (2). When contact I.D is selected, program a one (1) in this location to enable this report, an event "380 - Zone Trouble" will be reported. If this location contains a "0", the Priority Trouble will not be reported.

LOCATION 125: PROGRAMMING FOR ISOLATE REPORTING

The DAS DL100 has the ability to report an Isolate on zones 1-6. The desired Isolate code is programmed in location 125. When using Ademco High Speed, program a one (1) in this location to enable this report. A one (1) will be displayed for the channel corresponding to the zone that is Isolated. E.G, "5155 5555 3" will be reported for zone two (2). When contact I.D is selected, program a one (1) in this location to enable this report, an event "380 - Zone Isolate" will be reported. If this location contains a "0", zone Isolate will not be reported.

LOCATION 126: PROGRAMMING THE COMMUNICATOR CODE FOR RESTORAL

Location 126 contains the communicator code that will be sent for restoral of a zones and or system report events. When using Ademco High Speed, program a one (1) in this location to enable this report. When contact I.D is selected, program a one (1) in this location to enable this report. If this location contains a "0", no restorals will be reported.

LOCATION 127: PROGRAMMING THE COMMUNICATOR CODE FOR CANCEL (EXCEPTION OPENING)

Location 127 contains the communicator code that will be sent for cancel. The cancel code programmed in this location will be sent if an arm/disarm code is entered after a trip on zones 1 through 6 has been reported (excluding 24 hour zones). After a cancel has been reported, no loop restorals will be transmitted on non-24 Hour zones. When using Ademco High Speed, program a one (1) in this location to enable this report, the opening event will be reported with the user code number used. When contact I.D is selected, program a one (1) in this location to enable this report, the opening event will be reported with the user code number used. This feature can not be enable when Open/Close reporting is also enabled. If this location contains a "0", cancel is disabled.

LOCATION 128: PROGRAMMING THE COMMUNICATOR TO ABORT

Location 128 contains the number of 3 second increments in the communicator abort feature which is programmable from 3 to 45 seconds ("1" = 3 seconds through "15" = 45 seconds). For example, programming a "2" in this location will produce an abort time of 6 seconds. The DL-100 will abort the alarm report on any non-24 hour zone, if an arm/disarm code is entered within the abort time. If this location contains a "0", the DL-100 will not abort any reports.

LOCATION 129: PROGRAMMING FOR SILENT PANIC/HOLD-UP

Location 129 is used to silence the audible output for a panic/hold-up alarm. Programming a "1" in this location will silence the audible output during a panic/hold-up alarm. If this location contains a "0", the DAS DL100 will have an audible panic/hold-up output.

LOCATION 130: LIMITED SIREN AND/OR COMMUNICATOR OUTPUTS

Location 130 is used to limit the sirens or the communicator, or both, to one output per zone during a single arming cycle. The following table will indicate the value to be programmed in location 130 to give the DL100 the desired characteristics. Factory default is "1" , once per zone for the siren, and unlimited reports for the communicator.

VALUE	DESCRIPTION
0	SIRENS AND COMMUNICATOR NOT LIMITED
1	SIREN ONCE PER ZONE, COMMUNICATOR NOT LIMITED
2	COMMUNICATOR ONE REPORT PER ZONE, SIREN NOT LIMITED
3	SIREN AND COMMUNICATOR LIMITED TO ONCE PER ZONE

LOCATION 131: AUTOMATIC BYPASS / INSTANT ARMING - PARTIAL MODE SECURITY FEATURE

Location 131 is used to enable automatic "Instant Arming" or "Partial Arm" (Entry-Guard).. Programming a "1" in this location will cause the control to automatically enter the "Instant" mode and bypass interior follower zones if a fault is not detected on an entry/exit zone during the exit delay. Programming a "3" in this location (Automatic Bypass), will cause the interior follower zones to become bypassed if a fault is not detected on an entry/exit zone, yet will not change the status of the entry/exit zone. Programming a "8" will enable the Partial Arm security feature, which requires a four digit code to disarm the Partial Arm mode. If this location contains a "0", these features are disabled.

DATA	CHARACTERISTIC
1	ENABLE AUTO "INSTANT MODE"
3	ENABLE AUTO "HANDOVER ISOLATE" WITH ENTRY ZONE DELAY
8	ENABLE "PARTIAL MODE" (ENTRY-GUARD) SECURITY FEATURE

LOCATION 132: BUILT-IN SIREN DRIVER / 1 AMP VOLTAGE OUTPUT

The built-in siren driver has a steady sound (for Priority zone type), and a yelp sound (for Burglary and Panic). Factory default is "0", enabling this feature. If the built-in siren driver is NOT to be used, take the following procedure. First, remove the jumper on the PC board. Next, program a "1" in location 132. Finally, replace the jumper in the voltage position. Terminals 21 & 22 will now output 1 Amp at 12VDC. The Fire, Panic, and Burglary options for the Auxiliary Outputs can be programmed for momentary, or to follow the siren. Programming a "2" in location 132 will cause the Fire, Panic, or Burglary auxiliary outputs to activate for 10 seconds each time a Fire, Panic, or Burglary activates. Programming a "0" in location 132 will cause the Burg and Panic outputs to activate when the yelping siren is on and the Fire Auxiliary output to activate when the steady siren is on.

LOCATION 133: L.E.D. EXTINGUISH FEATURE

Code pad LEDs (with the exception of the A.C. LED) will be extinguished after 60 seconds of code pad inactivity, if a "1" is programmed in location 133. The LEDs will become illuminated immediately upon a keypress or alarm condition.

LOCATION 134: ENTERING THE NUMBER OF DIAL ATTEMPTS

Location 134 is used to enter the number of dial attempts (1 to 15 attempts) the communicator will try for the appropriate phone number(s) before ending the notification process. If this location contains an "8", the communicator will make 8 attempts to the first number, and then eight attempts to a second number, if a second number is programmed as backup.

LOCATION 135: POWER UP CONDITION

If a "1" is programmed in location 135, the DAS DL100 will power-up disarmed if there is a total power shutdown and battery failure. If a "2" is programmed in this location, it will power up armed. If this location contains a "0", the DAS DL100 will maintain the condition it was in at power down. A watchdog circuit reset will cause the DAS DL100 to reset to the selected condition.

LOCATION 136: POWER UP DELAY

If a one "1" is programmed in location 136, the DAS DL100 will not delay 60 seconds before accepting open or short inputs from any zone. If a "0" is programmed, sensors on all zones are allowed 60 seconds to stabilise at power-up, or after exiting the program mode. After 60 seconds, the DL-100 will once again accept loop opens or shorts as an alarm condition. This 60 Second period will also be initiated after a watchdog circuit reset condition.

LOCATION 137:IMMEDIATE RESTORE BY ZONE

If a "1" is programmed in location 137, restoral signals will follow the restore condition and report restores immediately after the condition has unfaulted. A non-extended format will not send a restore message until all zones and trouble conditions have restored. If this location contains a "0", the restore signal or signals will be reported only after siren timeout.

LOCATION 138: NO ARMING WITH A ZONE BYPASSED

If a "1" is programmed in location 138, the DAS DL100 will not arm with any zone bypassed. If programmed with a "0", 6 of the 6 burglary zones can be bypassed, and the DAS DL100 can still be armed.

LOCATION 139: PROGRAMMING THE QUICK ARM DIGIT

The DAS DL100 can be programmed to "Quick Arm" with digit [3], by programming a one (1) in location 139. A "0 " in this location will disable this feature. If the "Quick Arm" digit is the same as the first digit of the Master code (user 1), the "Door Chime Annunciation" feature will not function.

LOCATION 140-141: RESERVED FOR FUTURE USE

LOCATION 142: SIREN/BELL TEST FEATURE

The siren/bell can be programmed to activate upon different conditions. Using the chart below, add the values of the desired condition(s) and program the sum of those values in location 142. When the siren/bell is activated by pressing the [1] and [7] keys simultaneously,, the communicator will not report a message, and the siren/bell can be silenced by entering an arm/disarm code.

VALUE	DESCRIPTION
1	Activation by pressing [1] and [7] keys simultaneously
2	Momentary activation at arming
4	Momentary at end of exit delay
8	Momentary at kiss off ringback

LOCATION 143: SMOKE POWER RESET AND/OR FIRE ALARM VERIFICATION

Programming a "1" in location 143 will cause the DL100 (when in the disarmed state) to interrupt the smoke detector power each time the [#] button is pressed. If this location contains a "0", the smoke detector power will reset only after the [#] button is pressed when the corresponding LED(s) for zones designated as "Priority" are on steady for alarm or blinking for trouble. Programming a "2" in this location will enable the "Fire Alarm Verification" feature. When the "Fire Alarm Verification" feature is enabled, a smoke detector will be powered down and reset automatically after the first trip, waiting for a second trip within a 30 minute time frame (thus verifying a fire alarm condition) before creating an alarm and communicating a message.

LOCATION 144: RESERVED FOR FUTURE USE

LOCATION 145-148: PROGRAMMING THE AUXILIARY OUTPUTS

The DL100 has 4 auxiliary outputs located on terminals 1 thru 4 on the control PC board. These outputs can be activated by 10 different conditions. To utilise the outputs, program a number from "0" to "9" in locations 145 (output 1) to location 148 (output 4) according to the desired characteristics listed on the following page. Output 1 is terminal 1 and output 4 is terminal 4.

AUXILIARY OUTPUT TABLE

PROGRAM DIGIT	ACTIVATION ON	NOTES
"0"	BURGLARY ALARM	MOMENTARY OUTPUT
"1"	FIRE ALARM	MOMENTARY OUTPUT
"2"	PANIC ALARM/DURESS	MOMENTARY OUTPUT
"3"	ARMED STATE	LATCHED OUTPUT
"4"	ARMED WITH BYPASS	LATCHED OUTPUT
"5"	AC POWER	LATCHED OUTPUT
"6"	LOW BATTERY	LATCHED OUTPUT
"7"	LINE SEIZURE	MOMENTARY OUTPUT
"8"	TAMPER ALARM	LATCHED OUTPUT
"9"	AUTOTEST	MOMENTARY OUTPUT
"10"	NOT USED	NOT USED
"11"	STROBE	LATCHED OUTPUT
"12"	ENTRY	LATCHED OUTPUT
"13"	EXIT	LATCHED OUTPUT
"14"	STATUS LED	LATCHED OUTPUT
"15"	NOT USED	NOT USED

LOCATIONS 149: INVERTING THE AUXILIARY OUTPUTS

The auxiliary outputs of the DL100 are normally POSITIVE (+) going NEGATIVE (-). They can be changed to a normally NEGATIVE (-) going POSITIVE (+) by programming the appropriate number in location149. Auxiliary output 1 has a value of "1", Auxiliary output 2 has a value of "2", Auxiliary output 3 has a value of "4", and Auxiliary output 4 has a value of "8". The values for the outputs that you wish to change to NEGATIVE going POSITIVE must be added together and the total programmed in location 149. For example, if you wished to make outputs 2 ="2" and 3 ="4" NEGATIVE going POSITIVE, you would program "6" (2+4=6) in location 149. {NOTE: CURRENT LIMITED TO 250 MICRO AMPS POSITIVE AND 20 mA NEGATIVE).

VALUE	OUTPUT INVERSION	VALUE	OUTPUT INVERSION
0	NO AUX INVERTED	8	**INVERT AUX 4 OUTPUT**
1	**INVERT AUX 1 OUTPUT**	9	INVERT AUX 1 & 4 OUTPUT
2	**INVERT AUX 2 OUTPUT**	10	INVERT AUX 2 & 4 OUTPUT
3	INVERT AUX 1 & 2 OUTPUT	11	INVERT AUX 1, 2 & 4 OUTPUT
4	**INVERT AUX 3 OUTPUT**	12	INVERT AUX 3 & 4 OUTPUT
5	INVERT AUX 1 & 3 OUTPUT	13	INVERT AUX 1, 3 & 4 OUTPUT
6	INVERT AUX 2 & 3 OUTPUT	14	INVERT AUX 2, 3 & 4 OUTPUT
7	INVERT AUX 1, 2 & 3 OUTPUT	15	INVERT AUX 1, 2, 3 & 4 OUTPUT

LOCATION 150: AC POWER LOSS DELAY FEATURE

Location 150 contains the number of one minute delays (one to seven minutes) the communicator will wait before reporting an AC power failure. A "1" programmed in this location will create a one minute delay, and a "7" will create a seven minute delay. If a "0" is programmed in this location, AC power failures will be reported immediately if AC power loss reporting is enabled in locations 120-121.

LOCATION 151: PROGRAMMING THE NUMBER OF RINGS TO ANSWER DOWNLOAD CALL

Location 151 contains the number of rings the DL100 must detect before answering the telephone when initiating a download. If a number from "1" to "15" is programmed in this location, the control will answer after THAT number of rings has been detected. If a "0" is programmed in this location, the DL100 will not answer the download call. (SEE LOCATION 212: ANSWERING MACHINE DEFEAT)

LOCATION 152: PROGRAMMING THE NUMBER OF DAYS LEFT UNTIL AUTOTEST REPORT

Location 152 contains the number of days left until the next autotest report. If this location contains a "0", an autotest signal will be reported the first time the current time equals the autotest time programmed in locations 162-165. Locations 098-099 must be programmed to enable autotest reporting.

LOCATION 153: PROGRAMMING THE CLOCK, CURRENT MONTH

Location 153 contains the current month. The month must be programmed using a number from "1" to "12". This location must be programmed when using the maintenance code feature (see location 167).

LOCATION 154: PROGRAMMING THE CLOCK, CURRENT YEAR - TENS DIGIT

Location 154 contains the current year - tens digit. If the current year is 1994, this location should contain a 9, which is the tens digit of the current year.

LOCATION 155: PROGRAMMING THE CLOCK, CURRENT YEAR - ONES DIGIT

Location 155 contains the current year - ones digit. If the current year is 1994, this location should contain a "4", which is the ones digit of the current year. If the current year is 1995, this location should contain a "5", which is the ones digit of the current year.

LOCATION 156: PROGRAMMING THE CLOCK, CURRENT DAY OF THE MONTH - TENS DIGIT

Location 156 contains the current day of the month - tens digit. If the current day of the month is the 5th (05), this location should contain a "0", which is the current day of the month - tens digit. If the current day of the month is the 26th, this location should contain a "2".

LOCATION 157: PROGRAMMING THE CLOCK, CURRENT DAY OF THE MONTH - ONES DIGIT

Location 157 contains the current day of the month - ones digit. If the current day of the month is the 5th (05), this location should contain a "5", which is the current day of the month - ones digit. If the current day of the month is the 26th, this location should contain a "6".

LOCATION 158: PROGRAMMING THE CLOCK, CURRENT HOUR - TENS DIGIT

Location 158 contains the current hour - tens digit. The time is entered in 24 hour time. If the current time is 5:25 PM, the 24 hour time is 17:25, so this location should contain a "1", which is the current hour - tens digit. If the current time is 9:36 AM, the 24 hour time is 09:36, so this location should contain a "0".

LOCATION 159: PROGRAMMING THE CLOCK, CURRENT HOUR - ONES DIGIT

Location 159 contains the current hour - ones digit. The time is entered in 24 hour time. If the current time is 5:25 PM, the 24 hour time is 17:25, so this location should contain a "7", which is the current hour - ones digit. If the current time is 9:36 AM, the 24 hour time is 09:36, and this location should contain a "9".

LOCATION 160: PROGRAMMING THE CLOCK, CURRENT MINUTES - TENS DIGIT

Location 160 contains the current minutes - tens digit. The time is entered in 24 hour time. If the current time is 5:25 PM, the 24 hour time is 17:25, so location 160 should contain a "2", which is the current minutes - tens digit. If the current time is 9:36 AM, the 24 hour time is 09:36, and this location should contain a "3".

LOCATION 161: PROGRAMMING THE CLOCK, CURRENT MINUTES - ONES DIGIT

Location 161 contains the current minutes - ones digit. The time is entered in 24 hour time. If the current time is 5:25 PM, the 24 hour time is 17:25, so this location should contain a "5", which is the current minutes - ones digit. If the current time is 9:36 AM, the 24 hour time is 09:36, and this location should contain a "6".

LOCATION 162: PROGRAMMING THE AUTOTEST TIME, HOUR - TENS DIGIT

Location 162 contains the tens digit of the hour that the autotest report is initiated. The time is entered in 24 hour time. If the desired autotest time is 5:25 PM, the 24 hour time is 17:25, so this location should contain a "1", which is the tens digit of the desired hour for autotest. If the desired autotest time is 9:36 AM, the 24 hour time is 09:36, and this location should contain a "0".

LOCATION 163: PROGRAMMING THE AUTOTEST TIME, HOUR - ONES DIGIT

Location 163 contains the ones digit of the hour that the autotest report is desired. The time is entered in 24 hour time. If the desired autotest time is 5:25 PM, the 24 hour time is 17:25, so this location should contain a "7", which is the ones digit of the hour for autotest. If the desired autotest time is 9:36 AM, the 24 hour time is 09:36, and this location should contain a "9".

LOCATION 164: PROGRAMMING THE AUTOTEST TIME, MINUTES - TENS DIGIT

Location 164 contains the tens digit, of the minutes after the hour that the autotest is desired. The time is entered in 24 hour time. If the desired autotest time is 5:25 PM, the 24 hour time is 17:25, so this location should contain a "2", which is the tens digit of the minutes for autotest time. If the desired autotest time is 9:36 AM, the 24 hour time is 09:36, this location should contain a "3".

LOCATION 165: PROGRAMMING THE AUTOTEST TIME, MINUTES - ONES DIGIT

Location 165 contains the ones digit, of the minutes after the hour that the autotest is desired. The time is entered in 24 hour time. If the desired autotest time is 5:25 PM, the 24 hour time is 17:25, so this location should contain a "5", which is the ones digit of the minutes for autotest time. If the desired autotest time is 9:36 AM, the 24 hour time is 09:36, and this location should contain a "6".

LOCATION 166: PROGRAMMING THE AUTOTEST TIME REPORTING INTERVALS

Location 166 contains the number of days between automatic test reports. If a report is desired every 7 days, this location should contain a "7". Valid entries are "1" to "15" days.

LOCATION 167-178: RESERVED FOR FUTURE USE

LOCATION 178: PROGRAMMING THE SECONDARY ENTRY DELAY (ZONE TYPE 9)

Location 178 contains the number of 10 second increments in the exit delay. The exit delay can be programmed in 10 second increments from 10 to 150 seconds ("1" = 10 seconds through "15" =150 seconds). For example, programming a "2" in this location will produce an exit delay of 20 seconds. (Note: A "0" entry is treated as 0 seconds). Programming a "6" in this location will produce an exit delay of 60 seconds. Factory default is 60 seconds.

LOCATION 179: PROGRAMMING THE SECONDARY EXIT DELAY (ZONE TYPE 9)

Location 179 contains the number of 10 Second increments after arming, before trips will be recognised on a zone type 9. The exit delay can be programmed in 10 second increments from 10 to 150 seconds ("1" = 10 seconds thru "15" = 150 seconds). (Note: A "0" entry is treated as zero (0) seconds). If the exit delay time in this location is less than that of location 076, this secondary delay will follow the amount of time in location 076.

LOCATION 180: PROGRAMMING THE LOOP RESPONSE TIME

Location 180 is used to program the loop response time for all zones programmed as fast loop response in locations 186-193. The response time is equal to 20 milliseconds times the number programmed in this location ("1" = 20 milliseconds and "5" = 100 milliseconds). If this location contains a "0", the loop response time will be 500 milliseconds.

LOCATION 181: AUTOTEST SUPPRESSION

Programming a "1" in location 181 will cause the DL100 to suppress an autotest report if the communicator has sent any report since the last autotest. Programming a "0" (factory default) will cause all autotest reports to be sent.

LOCATION 182-183: FORMAT OVER RIDE

LOCATIONS 184-185: RESERVED FOR FUTURE USE

LOCATIONS 186-191: ASSIGNING SPECIAL CHARACTERISTICS FOR ZONES 1-6

Locations 186-191 are used to assign individual characteristics for each of zones 1-6. These locations can be used to enable or disable the chime feature, restore reporting, bypass feature, and fast loop response for each of the individual zones 1-6. To enable the features, enter a binary number according to the following chart:

VALUE	CHARACTERISTIC	VALUE	CHARACTERISTIC
0	NO FEATURE SELECTED	8	**CHIME ENABLE**
1	**FAST LOOP RESPONSE (see location 180)**	9	FAST LOOP RESPONSE CHIME ENABLE
2	**ZONE ISOLATE CAPABILITY**	10	GROUP ISOLATE ZONE CHIME ENABLE
3	FAST LOOP RESPONSE ZONE ISOLATE CAPABILITY	11	FAST LOOP RESPONSE ZONE ISOLATE CAPABILITY CHIME ENABLE
4	**ZONE RESTORAL REPORTING**	12	ZONE RESTORAL REPORTING CHIME ENABLE
5	FAST LOOP RESPONSE ZONE RESTORAL REPORTING	13	FAST LOOP RESPONSE ZONE RESTORAL REPORTING CHIME ENABLE
6	ZONE ISOLATE CAPABILITY ZONE RESTORAL REPORTING	14	GROUP ISOLATE ZONE ZONE RESTORAL REPORTING CHIME ENABLE
7	FAST LOOP RESPONSE ZONE ISOLATE CAPABILITY ZONE RESTORAL REPORTING	15	FAST LOOP RESPONSE ZONE ISOLATE CAPABILITY ZONE RESTORAL REPORTING CHIME ENABLE

LOCATIONS 192-195: RESERVED LOCATIONS

LOCATION 196: ANSWERING MACHINE DEFEAT

Location 196 contains the answering machine defeat. To defeat an answering machine, two telephone calls must be made to the premises. On the first call, let the phone ring the same number of times (or less) as the number programmed in this location (maximum 3). The control panel will detect these rings and start a 45 Second timer. If a call comes in during that 45 Second time frame, the control panel will answer on the first ring. To disable this feature, program a "0" in this location.

LOCATION 197: AUTO ISOLATE

Programming a "1" in location 197 will allow the DAS DL100 to be armed without all the zones secure (no "Ready" LED illuminated). Any zones that are not secure at the end of the exit delay will be automatically bypassed, while zones that are secure will be armed. Factory default is "0", Force Arming disabled.

LOCATIONS 198-201: AUTOMATIC ARMING TIME

Locations 198-201 contain the time of an automatic arming, if automatic arming is enabled in location 202. The time is entered as 24 hour (military) time beginning with location 198.

LOCATION 202: AUTOMATIC ARMING

Programming a "1" in location 202 will enable Automatic arming. The time of the arming is programmed in location 198-201. If automatic arming is enabled, the code pad sounder will activate for 50 seconds before automatically arming. If the sounder is silenced, by entering a valid arm/disarm code during the 50 Second time frame, the panel will not automatically arm. If the sounder is still on at the end of the 50 seconds, the control will arm. Any zones not secure will be bypassed when automatic arming is used. If open/close reports are enabled the DL100 will report user code "9" closing when it auto arms.

LOCATION 203: DYNAMIC BATTERY TEST

The number programmed in location 203 determines the number of minutes the DL100 will perform dynamic battery testing during each 24 hour period. The Battery test is preformed at 6:00 AM. Programming a "0" in this location will disable this feature.

LOCATIONS 204-206: RESERVED FOR FUTURE USE

LOCATIONS 207: CALLBACK PHONE NUMBER CONTROL

The number programmed in location 207 controls the use of the callback telephone number programmed in locations 264-279. The callback number must be programmed in the download section for this location to have an effect. The callback number will be used according to the following binary scale.

VALUE	DESCRIPTION
1	**CALLBACK SHOULD NOT OCCUR BEFORE A DOWNLOAD SESSION.**
2	**[*] [8] [#] SITE INITIATED DOWNLOAD IS ENABLED.**
3	CALLBACK SHOULD NOT OCCUR BEFORE A DOWNLOAD SESSION. [*] [8] [#] SITE INITIATED DOWNLOAD IS ENABLED.
4	**CALLBACK AT AUTOTEST INTERVALS IS ENABLED**
5	CALLBACK SHOULD NOT OCCUR BEFORE A DOWNLOAD SESSION. CALLBACK AT AUTOTEST INTERVALS IS ENABLED
6	[*] [8] [#] SITE INITIATED DOWNLOAD IS ENABLED. CALLBACK AT AUTOTEST INTERVALS IS ENABLED
7	CALLBACK SHOULD NOT OCCUR BEFORE A DOWNLOAD SESSION. [*] [8] [#] SITE INITIATED DOWNLOAD IS ENABLED. CALLBACK AT AUTOTEST INTERVALS IS ENABLED

LOCATIONS 208-209: FORMAT OVER RIDE

LOCATIONS 210-243: RESERVED FOR FUTURE USE

LOCATIONS 244-249: ASSIGNING PARTIAL ARM / GROUP ISOLATE FOR ZONES 1 - 6

Locations 244-249 are used to assign Partial Arm and Group Isolate zone characteristics for zones 1 - 6. Location 244 is for zone 1 and 249 is for zone 6. Each zone can have any or all of the following characteristics regardless of the zone type selected in locations 078-085 excluding Fire zones, which cannot have isolate capability enabled. The table below shows the possible programming data for each zone. Factory default is "8" for each of these zones, meaning Group Isolate and Partial mode are disabled.

Partial Arm (Entry-Guard)- This unique home level, arming mode allows you to remain inside your home and only arm areas that are not occupied. To enable this mode, location 131 must be programmed correctly. When Partial Arm is enabled, zones programmed with a "2" will be monitored in Partial Arm. For zones to be isolated in this mode, do not program a "2" in this location. When Partial Arm is enabled, pressing the [2] at the code pad and waiting five seconds will arm the DL-100 in this mode. The disarming method is determined in location 131. NOTE: The Partial Arm entry time will follow your primary entry time.

Group Isolate - Zones can be programmed to isolate as a group when [✶]-[9]-[✶] is pressed prior to arming. This feature can be enabled in conjunction with the Partial mode feature. Programming a "4" in these locations will enable the selected zone to be part of the group isolate.

DATA	CHARACTERISTIC
2	PARTIAL ARM (ENTRY-GUARD) MONITORED
4	GROUP ISOLATE, PARTIAL ARM (ISOLATED)
6	GROUP ISOLATE, PARTIAL ARM (ENTRY-GUARD) MONITORED
8	NO GROUP ISOLATE, PARTIAL ARM (ISOLATE)

LOCATIONS 250-251: RESERVED FOR FUTURE USE

LOCATION 252-253: PROGRAMMING TO REPORT CODE PAD AUXILIARY 3

The DAS DL100 has the ability to report a Silent Auxiliary 3 code each time the [7] and [9] keys are pressed simultaneously on the code pad. This feature is generally used as a manual communicator test. The desired Auxiliary 3 code is programmed in locations 252-253. When using Ademco High Speed, program a one (1) in the first location to enable this report, a "5555 5555 9" is reported. When contact I.D is selected, program a one (1) in the extended or the second location to enable this report, an event "602 - Autotest" will be reported. If locations 252-253 are "0", this report is disabled.

LOCATION 254-255: RESERVED FOR FUTURE USE

THE REMAINING LOCATIONS ARE ACCESSIBLE ONLY THROUGH DOWNLOADING

LOCATIONS 256-263: CONTROL PANEL ACCESS CODE

Locations 256-263 contain the eight digit access code the DL100 must receive from the downloading software before the panel will permit downloading to occur. The factory default code is listed in the instructions provided with the DASLOAD downloading software package.

LOCATIONS 264-279: CALL BACK TELEPHONE NUMBER

The presence of a phone number in locations 264-279 will cause the control panel to dial back this number after a successful panel access code has been entered. If a telephone number is present, the control panel will hang up for approximately 36 seconds, (insuring that the calling party has disconnected), then it will call back. Any zero (0) within the telephone number must be programmed as an "A". If tone dialling is desired, program an "F" in the location where tone dialling should begin. If the entire number should be tone dialling, program an "F" in location 194. Four second delays can be obtained anywhere in the sequence by programming a "D" in the appropriate delay location.

WARNING: THE CALLBACK PHONE NUMBER SHOULD ALWAYS BE REVIEWED FOR ACCURACY BEFORE DISCONNECTING.

LOCATION 280: MUST BE SET TO "0"

LOCATION 281: LOCAL PROGRAMMING LOCKOUT

Location 281 is used to disable local programming lockout. If a "5" is programmed in this location, all local programming is locked out. If an "A" is programmed in this location, all programming functions related to the digital communicator will be locked out. Any other number in location 281 will allow all local programming.

LOCATION 282: CONTROL PANEL SHUTDOWN

Location 282 is used to shut down the control panel. Programming an "A" in this location will completely shutdown the control panel. The code pad will appear "dead", and the siren and communicator will not operate.

WARNING: EXTREME CARE SHOULD BE TAKEN NOT TO INADVERTENTLY PROGRAM THIS LOCATION.

RM/DISARM CODES 1 - 15

LOCATION	PAGE	DESCRIPTION	DATA 1	DATA 2	DATA 3	DATA 4	"DEFAULT"
000-003	10	USER #1 ARM/DISARM CODE					"1-2-3-4"
004-007	10	USER #2 ARM/DISARM CODE					"15" DISABLED
008-011	10	USER #3 ARM/DISARM CODE					"15" DISABLED
012-015	10	USER #4 ARM/DISARM CODE					"15" DISABLED
016-019	10	USER #5 ARM/DISARM CODE					"15" DISABLED
020-023	10	USER #6 ARM/DISARM CODE					"15" DISABLED
024-027	10	USER #7 ARM/DISARM CODE					"15" DISABLED
028-031	10	"GO TO PROGRAM" ACCESS CODE					"9-7-1-3"

RIMARY PHONE NUMBER

LOCATION	PAGE	DESCRIPTION	PHONE NUMBER								"DEFAULT"
032-039	8	PRIMARY PHONE NUMBER, DIGITS 1 - 8									"0" DISABLED
040-047	8	PRIMARY PHONE NUMBER, DIGITS 9 - 16									"0" DISABLED

RIMARY ACCOUNT NUMBER

LOCATION	PAGE	DESCRIPTION	ACCOUNT CODE				"DEFAULT"
048-051	8	PRIMARY ACCOUNT NUMBER					"0" DISABLED

RIMARY FORMAT

LOCATION	PAGE	DESCRIPTION		FORMAT	"DEFAULT"
052	8	PRIMARY FORMAT	OPT=("1" THRU "15")		"0" DISABLED

ECONDARY PHONE NUMBER

LOCATION	PAGE	DESCRIPTION	PHONE NUMBER								"DEFAULT"
054-061	8	SECONDARY PHONE NUMBER, DIGITS 1 - 8									"0" DISABLED
062-069	8	SECONDARY PHONE NUMBER, DIGITS 9 - 16									"0" DISABLED

FORMAT SELECT TABLE

DATA	FORMAT	DESCRIPTION
0	LOCAL ONLY	COMMUNICATOR IS DISABLED
1	ADEMCO CONTACT ID	DTMF FORMAT
2	ADEMCO 4/2 EXPRESS	DTMF FORMAT
3	PAGER FORMAT	REPORTS IN 4 + 3 FORMAT
4	ADEMCO HIGH SPEED	DTMF FORMAT
5	RADIONICS EXTENDED SLOW	1800Hz TRANSMITTAL 2300Hz HANDSHAKE 20 PPS HEX EXT DOUBLE ROUND
6	CADDX MODEM	PROPRIETARY
7	RADIONICS EXTENDED FAST	1800Hz TRANSMITTAL 2300Hz HANDSHAKE 40 PPS HEX EXT DOUBLE ROUND
8	RADIONICS EXTENDED FAST	1800Hz TRANSMITTAL 1400Hz HANDSHAKE 40 PPS HEX EXT DOUBLE ROUND
9	RADIONICS EXT FAST W/PARITY	1800Hz TRANSMITTAL 2300Hz HANDSHAKE 40 PPS HEX EXTENDED
11	ADEMCO/SILENT KNIGHT SLOW	1900Hz TRANSMITTAL 1400Hz HANDSHAKE 10 PPS DOUBLE ROUND PARITY
12	SILENT KNIGHT 4+2 FAST	1900Hz TRANSMITTAL 1400Hz HANDSHAKE 20 PPS DOUBLE ROUND PARITY
13	SESCOA/FRANKLIN FAST	1800Hz TRANSMITTAL 2300Hz HANDSHAKE 20 PPS HEX DOUBLE ROUND
14	SIA	FSK FORMAT
15	CUSTOM FORMAT	SELECT YOU OWN FORMAT FOR NON STANDARD BASE STATIONS.

PROGRAMMING OPTIONS

LOCATION	PAGE	DESCRIPTION	DATA	"DEFAULT"
075	10	PRIMARY ENTRY DELAY OPT=("0" THRU "15") 10 SEC INC		"2" 20 SECONDS
076	10	PRIMARY EXIT DELAY OPT=("0" THRU "15") 10 SEC INC		"6" 60 SECONDS
077	10	SIREN CUTOFF TIME OPT=("0" THRU "15") 2 MIN INC		"4" 8 MINUTES

ZONE TYPES FOR ZONES 1 - 6

LOCATION	PAGE	DESCRIPTION	DATA	"DEFAULT"
078	11	ZONE #1 - ZONE TYPE		"3" ENTRY/EXIT
079	11	ZONE #2 - ZONE TYPE		"5" HANDOVER
080	11	ZONE #3 - ZONE TYPE		"6" INSTANT
081	11	ZONE #4 - ZONE TYPE		"6" INSTANT
082	11	ZONE #5 - ZONE TYPE		"6" INSTANT
083	11	ZONE #6 - ZONE TYPE		"6" INSTANT
084-085	11	RESERVED		RESERVED

COMMUNICATOR CODES

	PAGE	DESCRIPTION	CODE	EXTENDED CODE	"DEFAULT"
086-087	11	DURESS COMMUNICATOR CODES			"0" DISABLED
088-089	12	CODE PAD AUX 1 COMMUNICATOR CODE			"0" DISABLED
090-091	12	CODE PAD AUX 2 COMMUNICATOR CODE			"0" DISABLED
092-093	12	CODE PAD PANIC COMMUNICATOR CODE			"0" DISABLED
094-095	12	CODE PAD TAMPER COMMUNICATOR CODE			"0" DISABLED
096-097	12	DOWNLOAD COMPLETE COMMUNICATOR CODE			"0" DISABLED
098-099	13	AUTO TEST COMMUNICATOR CODES			"0" DISABLED
100-101	13	RESERVED			RESERVED
102	13	CLOSING COMMUNICATOR CODE		MAN NUMBER	"0" DISABLED
103	13	OPENING COMMUNICATOR CODE		MAN NUMBER	"0" DISABLED

COMMUNICATOR CODES

LOCATION	PAGE	DESCRIPTION	CODE	EXTENDED CODE	"DEFAULT"
104-105	13	ZONE #1 COMMUNICATOR CODE			"1 - 3"
106-107	13	ZONE #2 COMMUNICATOR CODE			"2 - 3"
108-109	13	ZONE #3 COMMUNICATOR CODE			"3 - 3"
110-111	13	ZONE #4 COMMUNICATOR CODE			"4 - 3"
112-113	13	ZONE #5 COMMUNICATOR CODE			"5 - 3"
114-115	14	ZONE #6 COMMUNICATOR CODE			"6 - 3"
116-119	14	RESERVED			RESERVED

COMMUNICATOR CODES

LOCATION	PAGE	DESCRIPTION	CODE	EXTENDED CODE	"DEFAULT"
120-121	14	AC POWER COMMUNICATOR CODE			"0" DISABLED
122-123	14	LOW BATTERY COMMUNICATOR CODE			"0" DISABLED
124	14	TROUBLE COMMUNICATOR CODE		ZONE NUMBER	"0" DISABLED
125	14	ISOLATE COMMUNICATOR CODE		ZONE NUMBER	"0" DISABLED
126	14	RESTORE COMMUNICATOR CODE		ZONE NUMBER	"0" DISABLED
127	15	CANCEL COMMUNICATOR CODE		MAN NUMBER	"0" DISABLED

PROGRAMMING OPTIONS

LOCATION	PAGE	DESCRIPTION	DATA	"DEFAULT"
128	15	ABORT ENABLE		"0" DISABLED
129	15	SILENT CODE PAD PANIC		"0" AUDIBLE
130	15	SIREN & COMMUNICATOR OUTPUT LIMITATION		"1"
131	15	AUTO HOME / INSTANT ARMING		"0" DISABLED
132	16	BUILT-IN SIREN DRIVER / 1 AMP VOLTAGE OUTPUT		"0" SIREN
133	16	L.E.D. EXTINGUISH ENABLE		"0" DISABLED
134	16	NUMBER OF DIAL ATTEMPTS		"6" ATTEMPTS
135	16	POWER UP CONDITION		"0" LAST CON
136	16	POWER UP DELAY		"1" DISABLED
137	16	IMMEDIATE RESTORE		"1" ENABLED
138	16	NO ARMING WITH A ZONE ISOLATED		"0" DISABLED
139	17	QUICK ARM DIGIT Digit [3]		"0" DISABLED
140-141	17	RESERVED		RESERVED
142	17	BELL TEST CONTROL		"0" DISABLED
143	17	SMOKE POWER RESET AND/OR FIRE ALARM VERIFICATION		"0" DISABLED
144	17	RESERVED		RESERVED

AUXILIARY OUTPUT OPTIONS

LOCATION	PAGE	DESCRIPTION	DATA	"DEFAULT"
145	17	AUX PIN #1		"11" STROBE
146	17	AUX PIN #2		"0" BURG ALARM
147	17	AUX PIN #3		"3" ARMED LED
148	17	AUX PIN #4		"14" READY LED
149	18	AUXILIARY OUTPUT INVERSION		"0" DISABLED

PROGRAMMING TIMER OPTIONS

LOCATION	PAGE	DESCRIPTION	DATA	"DEFAULT"
150	19	AC POWER FAIL REPORT DELAY OPT=("0" THRU "7") 1 MIN INC		"0" DISABLED
151	19	NUMBER OF RINGS TO ANSWER DOWNLOAD CALL		"0" DISABLED
152	19	NUMBER OF DAYS LEFT UNTIL AUTOTEST REPORT		"UNDEFINED"
153	19	MONTH OF THE YEAR (JANUARY = "1" DECEMBER = "12")		"UNDEFINED"
154	19	CURRENT YEAR - TENS DIGIT (1994 = "9")		"UNDEFINED"
155	19	CURRENT YEAR - ONES DIGIT (1994 = "4")		"UNDEFINED"
156	19	DAY OF THE MONTH - TENS DIGIT (25TH = "2")		"UNDEFINED"
157	19	DAY OF THE MONTH - ONES DIGIT (25TH = "5")		"UNDEFINED"
158	19	CURRENT HOUR - TENS DIGIT		"UNDEFINED"
159	20	CURRENT HOUR - ONES DIGIT		"UNDEFINED"
160	20	CURRENT MINUTE - TENS DIGIT		"UNDEFINED"
161	20	CURRENT MINUTE - ONES DIGIT		"UNDEFINED"
162	20	AUTOTEST TIME HOUR - TENS DIGIT		"UNDEFINED"
163	20	AUTOTEST TIME HOUR - ONES DIGIT		"UNDEFINED"
164	20	AUTOTEST TIME MINUTE - TENS DIGIT		"UNDEFINED"
165	20	AUTOTEST TIME MINUTE - ONES DIGIT		"UNDEFINED"
166	20	AUTOTEST TIME REPORTING INTERVALS		"UNDEFINED"
167-177	20	RESERVED		RESERVED

PROGRAMMING OPTIONS

LOCATION	PAGE	DESCRIPTION	DATA	"DEFAULT"
178	20	SECONDARY ENTRY DELAY OPT=("0" THRU "15") 10 SEC INC		"6" 60 SECONDS
179	21	SECONDARY EXIT DELAY OPT=("0" THRU "15") 10 SEC INC		"6" 60 SECONDS
180	21	LOOP RESPONSE TIME OPT=("0" THRU "15") 20 m/ SEC INC		"0" DISABLED
181	21	AUTOTEST SUPPRESSION		"0" DISABLED
182-183	21	FORMAT OVER RIDE		"0" DISABLED
184-185	21	RESERVED		RESERVED
186	21	ZONE #1 - SPECIAL CHARACTERISTICS		"6"
187	21	ZONE #2 - SPECIAL CHARACTERISTICS		"6"
188	21	ZONE #3 - SPECIAL CHARACTERISTICS		"6"
189	21	ZONE #4 - SPECIAL CHARACTERISTICS		"6"
190	21	ZONE #5 - SPECIAL CHARACTERISTICS		"6"
191	21	ZONE #6 - SPECIAL CHARACTERISTICS		"6"
192-195	22	RESERVED		RESERVED
196	22	ANSWERING MACHINE DEFEAT OPT=("0" THRU "3") RINGS		"0" DISABLED
197	22	AUTO ISOLATION		"0" DISABLED
198	22	AUTO ARM TIME HOURS - TENS DIGIT		"2"
199	22	AUTO ARM TIME HOURS - ONES DIGIT		"2"
200	22	AUTO ARM TIME MINUTES - TONES DIGIT		"0"
201	22	AUTO ARM TIME HOURS - ONES DIGIT		"0"
202	22	AUTO ARM ENABLE		"0" DISABLED
203	22	DYNAMIC BATTERY TEST DURATION		"0" DISABLED
204-206	22	RESERVED		RESERVED
207	23	CALLBACK PHONE NUMBER CONTROL		"0" DISABLED
208-209	23	FORMAT OVER RIDE		"0" DISABLED
210-243	23	RESERVED		RESERVED
244	23	PARTIAL ARM / GROUP ISOLATE FOR ZONE 1		"8"
245	23	PARTIAL ARM / GROUP ISOLATE FOR ZONE 2		"8"
246	23	PARTIAL ARM / GROUP ISOLATE FOR ZONE 3		"8"
247	23	PARTIAL ARM / GROUP ISOLATE FOR ZONE 4		"8"
248	23	PARTIAL ARM / GROUP ISOLATE FOR ZONE 5		"8"
249	23	PARTIAL ARM / GROUP ISOLATE FOR ZONE 6		"8"
250-251	23	RESERVED		RESERVED
252	23	CODE PAD AUX 3 COMMUNICATOR CODE		"0" DISABLED
253	23	CODE PAD AUX 3 COMMUNICATOR EXTENDED CODE		"0" DISABLED
254-255	23	RESERVED		RESERVED

THE FOLLOWING LOCATIONS ARE ACCESSIBLE ONLY THROUGH DOWNLOADING

LOCATION	PAGE	DESCRIPTION	DATA	"DEFAULT"
256-263	24	CONTROL PANEL ACCESS CODE		"10000000"
264-271	24	CALLBACK PHONE NUMBER, DIGITS 1 - 8		"0" DISABLED
272-279	24	CALLBACK PHONE NUMBER, DIGITS 9 - 16		"0" DISABLED
280	24	RESERVED		"0" DISABLED
281	24	LOCAL PROGRAMMING LOCKOUT		"0" DISABLED
282	24	CONTROL PANEL SHUTDOWN		"0" DISABLED

APPENDIX 1

This document lists the event reporting codes for Ademco Contact ID reporting in the DL-100. The event codes are programmed by placing a number from 0-15 in the extended or second location of the communicator code for the event being reported. The following event codes will be sent for the digit programmed:

PROGRAMMED 100's DIGIT	ADEMCO EVENT CODE	DEFINITION
0	122	SILENT PANIC
1	110	FIRE
2	120	PANIC
3	130	BURGLARY
4	131	PERIMETER BURGLARY
5	132	INTERIOR BURGLARY
6	133	24 HOUR AUXILIARY
7	134	ENTRY/EXIT BURGLARY
8	135	DAY/NIGHT BURGLARY
9	150	NON-BURG 24 HOUR
10	121	DURESS
11	100	MEDICAL ALARM
12	123	AUDIBLE PANIC
13	137	TAMPER
14	602	AUTO TEST
15	300	SYSTEM TROUBLE

The following event codes are sent automatically but must be enabled by programming a 1 in the communicator code location for that report:

REPORTING EVENT	ADEMCO EVENT DIGIT	LOCATIONS
KEYPAD TAMPER	137	095
AUTOTEST	602	099
FAIL TO COMMUNICATE	354	101
OPENING/CLOSING	401	103/102
CANCEL	406	127
A.C. LOSS	301	121
RESTORE	EVENT CODE FOR ALARM	126
ZONE ISOLATE	570	125
ZONE TROUBLE	380	124
LOW BATTERY	302	123
BATTERY TEST FAIL	309	123
DOWNLOAD COMPLETE	412	097

APPENDIX 2

This document describes the DL-100 reporting event codes when using the SIA format (format 14). The following codes are programmable and are sent when the 100's digit is programmed as the event code. The 10's and 1's digit are then sent as a zone identifier.

PROGRAMMED 100's DIGIT	SIA CODE	DEFINITION
0	PA	PANIC ALARM
1	FA	FIRE ALARM
2	PA	PANIC ALARM
3	BA	BURGLARY ALARM
4	GA	GAS ALARM
5	KA	HEAT ALARM
6	WA	WATER ALARM
7	QA	EMERGENCY ALARM
8	SA	SPRINKLER ALARM
9	UA	UNTYPED ALARM
10	HA	HOLDUP ALARM
11	MA	MEDICAL ALARM
12	ZA	FREEZE ALARM
13	TA	TAMPER ALARM
14	RP	PERIODIC TEST
15		RESERVED

The following event codes are fixed but must be enabled by programming a 1 in the corresponding location.

REPORTING EVENT	SIA CODE	PROGRAMMING LOCATION
TAMPER	TA	095
AUTOTEST	RP	099
FAIL TO COMMUNICATE	RT	101
OPENING	OP	103
CLOSING	CL	102
CANCEL	OC	127
AC LOSS	AT	121
LOW BATTERY	YT	123
RESTORE CODE	*R	126
ISOLATE CODE	*B	125
ISOLATE RESTORE	*U	126/125
TROUBLE CODE	*T	124
TROUBLE RESTORE	*R	124/126
AC RESTORE	AR	126
BATTERY RESTORE	YR	126
DOWNLOAD COMPLETE	RS	097

* The character transmitted in this location will be the first character in the SIA code from the top list for the event being transmitted. If a "1" is programmed in location 126, and a Burglary Alarm (B A) restores, a B R will be transmitted. If a "1" is programmed in location 124, and a Fire Alarm (F A) zone goes into Trouble, an (F T) will be transmitted.

SPECIFICATIONS

OPERATING POWER	16.5 VAC 1.5 AMP Plug Pack
AUXILIARY POWER	12 VDC Regulated 500 mA
LOOP RESISTANCE	300 Ohms Maximum
BUILT-IN SIREN DRIVER	4 Ohms Max
LOOP RESPONSE	Selectable 20mS to 500ms
OPERATING TEMPERATURE	32 to 120 degrees F
KEYPAD DIMENSIONS	5.50" Wide 4.25" High .850" Deep
METAL ENCLOSURE DIMENSION	11.25" Wide 11.25" High 3.50" Deep
SHIPPING WEIGHT	9 lbs.

WARRANTY STATEMENT

DIRECT ALARM SUPPLIES GUARANTEES THIS PRODUCT AGAINST DEFECTIVE PARTS AND WORKMANSHIP FOR TWENTY-FOUR (24) MONTHS FROM DATE OF PURCHASE. IF ANY DEFECT APPEARS DURING THE WARRANTY PERIOD RETURN IT TO DAS, POSTAGE PREPAID. THE UNIT WILL BE REPAIRED AND RETURNED. DAS ASSUMES NO LIABILITY FOR CONSEQUENTIAL OR INDIRECT DAMAGE AND ACCEPTS NO RESPONSIBILITY FOR REPAIRING DAMAGE TO THE PRODUCT CAUSED BY MISUSE, CARELESS HANDLING, OR WHERE REPAIRS HAVE BEEN MADE BY OTHERS.

NO OTHER GUARANTEE, WRITTEN OR VERBAL, IS AUTHORIZED BY OR ON BEHALF OF DIRECT ALARM SUPPLIES.