



IDS 1632

Installer Manual

South Africa's leading manufacturer and distributor of electronic security products.



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CONTROL KEYPAD

For a more detailed explanation of the keypad indicators see understanding the Keypad Indicators.

AWAY INDICATOR (RED)
The indicator is illuminated when the system is armed in the AWAY mode.

ARMED INDICATOR (RED)
The indicator is illuminated when the system is armed.

READY INDICATOR (GREEN)
The indicator is illuminated when the system is ready to be armed.

POWER INDICATOR (RED)
The indicator is illuminated when mains power is present.

ZONE INDICATOR (ORANGE)
Indicates the status of the zones.

STAR KEY
Used as an entry key for data input.



HASH KEY
This key will cancel any unintended entries.

MEDICAL ALARM
This key will activate the MEDICAL ALARM when held down for one second.

FIRE ALARM
This key will activate the FIRE ALARM when held down for one second.

PANIC ALARM
This key will activate the PANIC ALARM when held down for one second.

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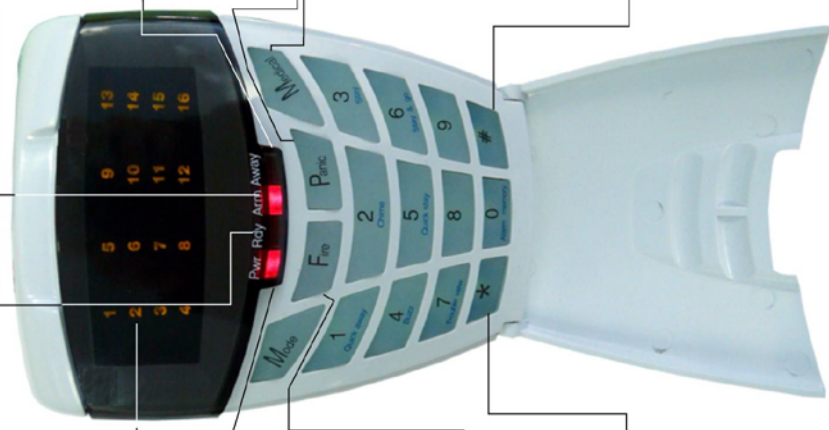
READY INDICATOR (GREEN)
The indicator is illuminated when the system is ready to be armed.

ZONE INDICATOR (ORANGE)
Indicates the status of the zones.

POWER INDICATOR (RED)
The indicator is illuminated when mains power is present.

FIRE ALARM
This key will activate the FIRE ALARM when held down for one second.

STAR KEY
Used as an entry key for data input.



1.

Introduction to the IDS 1632

The IDS 1632 is a versatile, microprocessor based sixteen zone Alarm Panel. It has eight partitions and can be expanded to thirty two zones. Most features are optional and may be programmed either directly through the keypads or via the telephone system, using the IDS download software and appropriate modem.

There are sixteen programmable burglary zones, a dedicated panic zone, monitored siren output, auxiliary power outputs and eight programmable outputs that may be programmed to perform various trigger/switching functions.

The IDS 1632 also interfaces to a Voice Module, GPRS module and may be controlled remotely via DTMF telephone keypad.

The voice module makes it possible to have the Alarm Panel call a user's telephone number and report in plain English. The user may also access the Panel, using DTMF keystrokes and be guided through a menu system by English Voice Prompts.

IDS GSM Communicators (GPRS modules) are available in two versions:

- The SMS Communicator allows clients to control and program their Alarm Panels via a cellphone – it also allows up to 5 cellphones to receive SMS event reporting.
- Outstation Communicators connect the clients' Alarm Panels to the Security Company Control Room via a third party Communications Watchdog Company (which monitors signal strength levels and ensures that reports are acknowledged.) Alarm Companies are also able to program/upload/download the clients' IDS 1632 Alarm Panels by means of an IDS GSM Base Station Communicator and the associated Download Software.

For correct operation, the IDS 1632 must be used in conjunction with the specified transformer/battery combination and appropriate peripheral sensors and signalling devices.

1.1

Features of the IDS 1632

- RS485 keypad bus supports two eight-zone expander modules, one IDS remote receiver, up to 16 keypads and an IDS GSM Communicator.
- Sixteen programmable, end-of-line supervised zone inputs.
- Expandable to thirty two zones via keypad zones, zone expander modules, zone doubling or wireless expansion.
- 8 partitions
- Optional tamper reporting per zone using double end-of-line resistors (12K and 4K7)
- Fully programmable digital telephone communicator that supports most industry standard formats.
- Eight programmable outputs on Alarm Panel. Expandable to twelve when using Wired Zone Expander module.
- Non-volatile EEPROM memory retains all program and event log data in the event of a total power failure.
- Event log, date and time stamped (approximately 700 events – exact number of events is dependant on the timing of the events).
- Programmable loop response time
- Up and downloadable using IDS Windows based software, either directly via RS 232 or remotely using a modem.

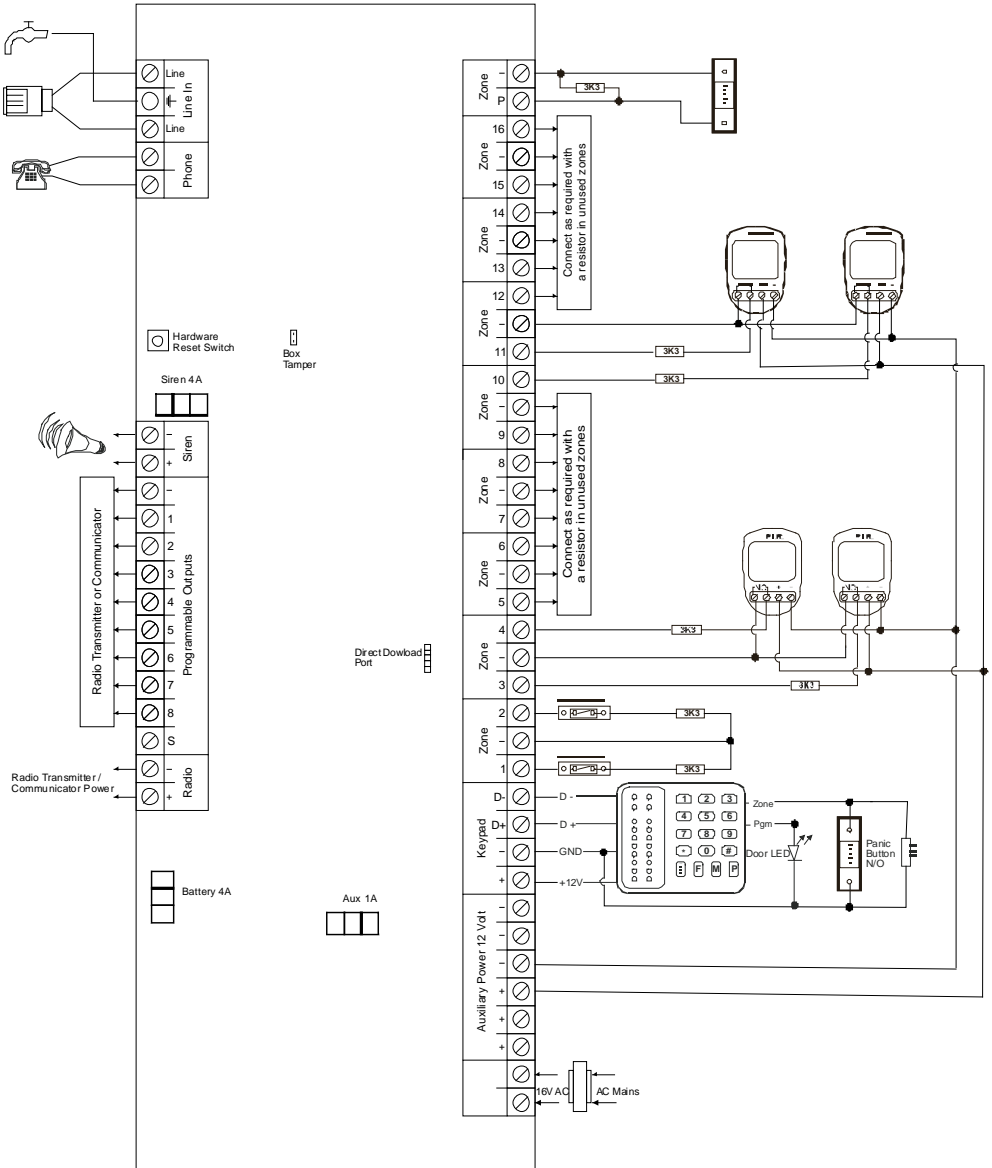
- Excellent protection against lightning (provided by specialised “zap tracking” and transient suppressors).
- Auto arm/disarm capability per partition and by day of the week. The panel can be programmed to arm/disarm at a pre-determined time.
- Fax defeat/answering machine override
- Dual reporting provides for duplicated reporting to two independent central base stations – or one base station and a cellphone.
- Dynamic battery self test
- Low battery cut out circuit
- Support for secure dial-in functionality using any DTMF phone.
- Optional voice module for voiced reporting and DTMF, voice-prompted remote-controlled menu.
- GPRS SMS reporting and alarm control functionality via cellphone (when a GSM Communicator is installed).

2.

Installation and Wiring

Refer to Figure 1: Connection Diagram, and familiarise yourself with the following sections.

Figure 1 : Connection Diagram without Tamper per Zone



2.1

Additional Technical Data

- A suitable transformer with an output voltage of 16 volts AC $\pm 10\%$ with a 32VA minimum rating must be used
- A 12V sealed lead acid battery with a minimum capacity of 7AH must be used. The back up period after mains failure will depend on the number of keypads, sensors and peripheral devices connected to the system.
- The panel can supply a total continuous current of 750mA to peripheral devices such as keypads, remotes, receivers, passives etc.
- Connect a 12 volt self-driven siren or piezo siren [not a horn speaker] to the siren output.

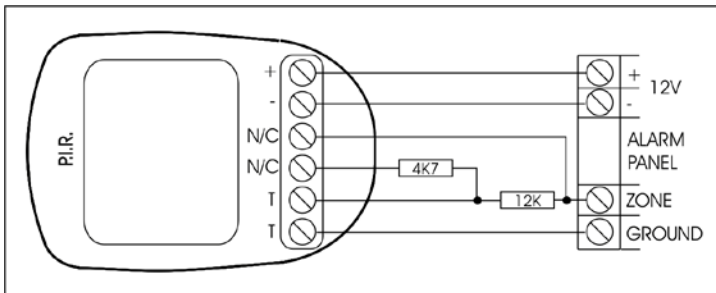
2.2

End-of-Line Resistors

(Including Tamper by Zone / Zone Doubling)

- All zones must be end-of-line supervised.
- Any unused zones must be terminated with a 3K3 resistor. The end of line resistor must be placed inside or as close to the sensor as possible.
- If neither zone doubling nor tamper by zone are required the 3K3 resistor must be used.
- For zone doubling or tamper per zone, the 4K7 and 12K end-of-line resistors must be connected as per Figures 2 and 3.

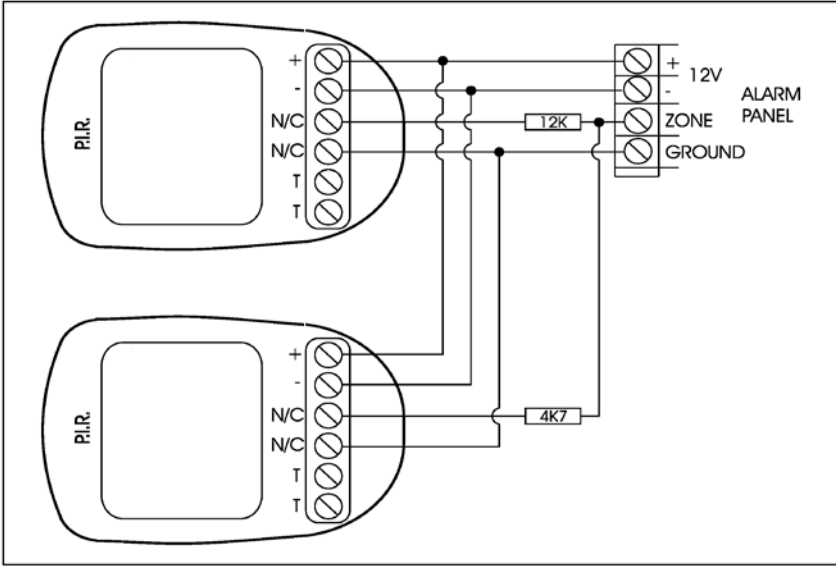
Figure 2 : Tamper by Zone Connection



Tamper operation is as follows:

- If the panel is unarmed and a tamper condition occurs, the siren will not sound but a tamper condition will be reported.
- If the panel is armed and a tamper condition occurs an audible alarm will register and a tamper condition AND zone violation will be reported.
- Panic zones always register panic and tamper conditions.
- The colour codes for the 12K and 4K7 resistors are as per in Figure 4.

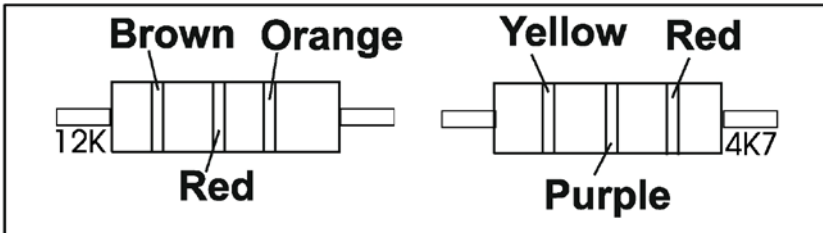
Figure 3 : Zone Doubling Connection



The following limitations apply to zone doubling:

1. Only normally closed contacts (n/c) may be used.
2. If the zone input to the panel is short or open circuited at the panel, both the zone and its double will be violated.
3. If the 12K resistor is "open circuited" the primary zone will indicate a violation i.e. assuming zone 8 is doubled in this case zone 8 will be indicated as violated.
4. If the 4K7 resistor is "open circuited" the secondary zone will indicate a violation i.e. assuming the example in 3 above zone 16 would indicate the violation.
5. The colour codes for the 4K7 and 12K resistors are shown in Figure 4.

Figure 4 : Resistors (Tamper per Zone or Zone Doubling)



2.3

Box Tamper Input

The box tamper input does not require an end-of-line resistor and requires a normally closed contact.

2.4

Installing an Expander Module

When installing an expander module refer to the document supplied with the module. Note that only one or two (8-zone) expansion modules may be added to the IDS 1632 Alarm Panel.

2.5

Connecting the Telephone Communicator

Refer to Figure 1. Connection Diagram (Page 10).

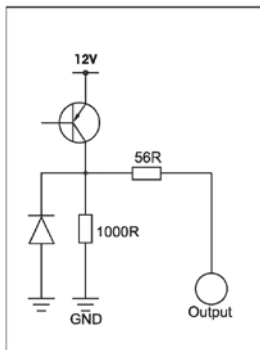
For optimum lightning protection, connect a low impedance earth to the communicator earth input. Always connect the telephone communicator in line seizure mode and never in parallel with the telephone. Ensure the telephone receiver is connected to the communicator terminals marked "phone" and the incoming line to the terminals marked "line".

2.6

Programmable Outputs

A relay board must be used when any device requiring a high current is connected to a programmable output. The programmable output circuitry consists of a 12 volt source with a 56 Ω series resistor. Current sink is via a 1 000 Ω resistor to negative. For information purposes, the output circuitry for a single output is shown in Figure 5.

Figure 5 : Programmable Output Configuration



2.7

Key-Switch or Remote Control Unit

A momentary key-switch or non-latching remote control receiver may be connected to any zone to allow remote arm/disarm and remote panic capability.

- When using a key-switch or remote control unit a 3K3 resistor must be connected between the zone input and ground.
- Use only a spring-loaded momentary key-switch or non-latching remote control unit.

2.8

IDS Remote Receiver

An IDS Remote Receiver (P/N 860-06-0003) may be connected to the keypad bus. Using this facility allows remote arming and disarming of the panel while providing user identification for a maximum of 238 remotes.

2.9

Radio Transmitter Connection

When connecting a radio transmitter, use the TX terminal provided on the PCB to supply power to the transmitter. (See Figure 1) This output is protected by the 4 Amp battery fuse.

3.

Hardware Reset Switch

Should the need arise to return the panel to factory default, use the hardware reset switch (see Figure 1).

The panel may be defaulted as follows:

Remove both battery and AC power from the panel. While depressing the reset switch reapply power to the panel by either connecting the battery or the AC power. Release the reset switch approximately 2 seconds after reapplying the power. Factory default values will now be restored to all locations and all attached keypad IDs will be defaulted. A default event will be logged and the existing event log will NOT be erased.

NOTE:

Once the reset switch has been disabled by programming a 10 into location 444, it will no longer be possible to default the panel using the reset switch. The panel can only be defaulted if a valid installer code is entered and a value of [0] is entered into location 0.

4.

Enrolling Keypads and Other Devices

A new panel supplied from the factory will have factory default values in all locations (as indicated throughout this manual). Similarly new keypads will have no ID assigned to them. It is however good practice to default the system by using the reset switch prior to commencement of programming. This will ensure that the above is true and that no factory test values remain.

The keypad/s attached to a system as defaulted above will have no ID and will therefore not communicate with the panel. This is indicated by all keypad LED's flashing simultaneously.

In order to enrol a keypad (thereby giving the keypad an ID) press the [#] key of the keypad you wish to enrol. The enrolled keypad will now indicate the alarm status. Repeat this process with the remaining keypads where more than 1 keypad is used.

The first keypad enrolled will have an ID of 1, the second enrolled will have an ID of 2, the third an ID of 3 etc. A maximum of 16 keypads may be used.

NOTE:

If the keypad zone is to be used, consideration must be given to the sequence in which keypads are enrolled as this affects the LED zone designation. The keypad 1 will contain zone 32, keypad 2 will contain zone 31 etc.

Fitting zone expanders will introduce zones that use these same addresses – to make use of the zones on the expanders, the corresponding keypad zones will need to have resistors fitted. Use can be made of the keypad zone OR the expanded zone – and NOT both simultaneously.

Additional Devices

To enrol other devices (IDS Remote Receivers or Zone Expanders); consult the installation instructions for those devices. The IDS 1632 Alarm Panel can accept up to two eight-zone expander modules, and an IDS Remote Receiver.

4.1 Replacing a Faulty Keypad/Device

NOTE:

Should a faulty keypad be REPLACED with another keypad, the following applies:

1. Disconnect ONLY the faulty keypad.
2. Program a value 4 into location zero to free up all vacant addresses.
3. Connect the replacement keypad and enrol it - by pressing **[#]** – it will now be enrolled in the first available address, which should now be the address just freed up in step 2.

NOTE:

If other devices (keypads) are disconnected (or faulty), at the time of performing step 2, their addresses will also be freed. Any new devices being enrolled will automatically be allocated addresses beginning from the lowest free address. This can cause devices to be associated with the wrong addresses/partitions. The resultant communications attempts made to the wrong addresses can result in sluggish system behaviour. Operation will become confusing.

Check

After enrolling a keypad, go to location 446 to check the keypad's ID (which is a number that corresponds to the order that the keypads were enrolled). If the keypad ID is incorrect (3rd keypad has ID = 2, for example), then this must be rectified for the system is to operate correctly.

Solution

If the system is complex and has developed a keypad allocation problem, it is recommended that all keypads are defaulted and registered "from scratch", as it were, in the correct, required sequence.

To re-enrol a Zone Expander, or an IDS Remote Receiver, consult the installation instructions for the relevant device.

4.2 Defaulting Keypads

To default the ID of an individual keypad:

Power off, Hold [1] & [3], Restore power, Release [1] & [3]

1. Remove power to the keypad (or the whole panel if easier). Whilst holding down the **[1]** and **[3]** keys restore the power to the keypad.
2. All the keypad LED's will flash simultaneously indicating that the keypad has now been de-registered.
3. The ID of any (correctly registered) keypad can be interrogated by viewing the data in location 446 from the keypad of interest.
4. Wait for five seconds and then press the hash **[#]** key to allocate a new ID to the defaulted keypad. Keypad IDs are allocated incrementally.

To default the ID of ALL keypads:

Programming a value of **[3]** into location **[0]** causes ALL keypads to be defaulted.

[INSTALLER CODE] [*] [0] [*] [3] [*]

On pressing the final **[*]**, wait a few seconds and ALL the keypads will begin flashing. (Do NOT press **[#]** at the end of this sequence, unless you wish the keypad you are using to be registered in the first address)

Re-enrol all keypads by pressing **[#]** on each keypad – in the CORRECT sequence to ensure that keypad zone and partition allocation is as required by the user.

5. Event Log

A comprehensive log of the 700 most recent events is retained in the non-volatile EEPROM. The log may be retrieved using the up/ download software. Alternatively, it can be viewed using an LCD keypad. (See LCD Keypad Manual)

NOTE:

The exact number of events that can be stored is dependant on the event timing, which means it can vary between 300 and 1000 events, practically averaging out to be of the order of 500 events.

6. Download Code

The download code (in conjunction with the installer code) is required for download access. The default download code is 9999. Using the downloading software, it is possible to program a location that will either allow or disallow defaulting of the download code.

This location is only accessible using the download software. If the panel is defaulted, the download code will revert back to 9999. A value of **[1] [0]** programmed into this location will prevent the download code from being defaulted when defaulting the panel.

6.1 Programming the Panel

The panel can be programmed either via a keypad or via the up/ download software. Programming the panel by means of an LED keypad is explained below:

NOTE:

Before commencing programming, it is advisable to read the Installer Manual thoroughly.

6.2 Location Values

All values within a program location will be displayed by the zone indicators in binary coded decimal format i.e. zone indicators 1-4 indicate units (1's) and zone indicator 5-8 indicate tens (10's), and so on.

To read a binary value on the keypad sum the values represented by each on LED as shown in Table 1:

Table 1 : Values Represented by each Zone LED

Zone LED	Value	Digit	Zone LED	Value	Digit
Zone 1	1	Units	Zone 9	1	Hundreds
Zone 2	2		Zone 10	2	
Zone 3	4		Zone 11	4	
Zone 4	8		Zone 12	8	
Zone 5	1	Tens	Zone 13	1	Thousands
Zone 6	2		Zone 14	2	
Zone 7	4		Zone 15	4	
Zone 8	8		Zone 16	8	

Example:

Assume the following zone indicators are on:

Zone 1, Zone 3 and Zone 5.

Units are represented by the sum of Zone 1 and Zone 3 (i.e. 1 + 4) and tens of units are represented by the value of Zone 5 (i.e. 1)

Thus, the value indicated by the lit LED will be shown below.

Zone LED	Value	Digit
Zone 1	1	Units
Zone 2	2	
Zone 3	4	
Zone 4	4	
Zone 5	1	Tens
Zone 6	2	
Zone 7	4	
Zone 8	8	

Therefore, the displayed value is 15.

7. Programming the Panel

For all programming procedures, the **[*]** star key functions as the **<ENTER>** key and the **[#]** hash key functions as a **<CLEAR>** or an **<EXIT>** program key.

Invalid data entries are indicated by means of an error beep consisting of 3 short beeps of the keypad buzzer.

There are two location categories:

- Standard locations which are single tiered and do not contain any sub-locations.
- Extended locations that are double tiered and have sub-locations.

Both standard and extended locations may contain further subcategories referred to as bitmapped locations.

For both main categories, clear visual keypad prompts are provided which aid the programming process.

To read the data stored in multi-digit locations (e.g. a telephone number, account codes etc.), enter the location. Upon initial entry into the location, the first digit will be displayed by the zone indicators. Pressing the **[Panic]** key will cause the next digit within the location to be displayed.

Where a hexadecimal number must be programmed, use the **[MODE]** key as per Table 2 below:

Table 2 : Hexadecimal Value

Hex Value	Decimal Value	Key Strokes
A	10	[MODE] key then [0] key
B	11	[MODE] key then [1] key
C	12	[MODE] key then [2] key
D	13	[MODE] key then [3] key
E	14	[MODE] key then [4] key
F	15	[MODE] key then [5] key

7.1 Entering Program Mode

1. Ensure that all partitions are unarmed.
2. Press the **[#]** hash key followed by the **[INSTALLER CODE]**.
3. The default installer code is 9999 or alternatively 999999 should a six digit default installer code have been used.
4. Press the **[*]** star key and a long beep will confirm entry into program mode. If a correct code has been entered, the green READY indicator will flash.

7.2 Programming Standard Locations

1. Ensure the panel is in program mode - the READY indicator will be flashing.
2. Enter the **[LOCATION NUMBER]** of the program location you wish to view or change.
3. Press the **[*]** star key. The READY indicator will continue flashing and the AWAY indicator will come on.
4. The zone LED's will display the data stored in the program location in binary format.
5. Enter the **[NEW DATA]** followed by the **[*]** star key. A long beep will indicate a valid entry and the AWAY indicator will turn off.
6. If you do not wish to change the data press the **[#]** key. The READY indicator will continue flashing and the AWAY indicator will turn off.
7. Repeat steps 2 - 6 until all the necessary locations have been programmed.
8. Press the **[#]** hash key to exit program mode.
9. The READY indicator will stop flashing and the panel will return to the standby mode.

7.3 Programming Extended Locations

1. Ensure that the panel is in program mode - the READY indicator will be flashing.
2. Enter the **[LOCATION NUMBER]** of the program location that you wish to view or change.
3. Press the **[*]** star key. The READY indicator will continue flashing and the ARMED indicator will come on.
4. Enter the **[SUB-LOCATION NUMBER]** for the program location that you wish to view or change.
5. Press the **[*]** star key, a long beep indicates a valid data entry. The READY indicator will continue flashing and the ARMED and AWAY indicators will come on.
6. Enter the **[NEW DATA]** followed by the **[*]** star key. A long beep will indicate a valid entry. The AWAY indicator will turn off.

7. If you do not wish to change the data within this sub-location press the **[#]** hash key. The READY indicator will continue flashing and the AWAY indicator will turn off.
8. Repeat steps 4 to 7 until all sub-locations at the current location have been programmed as required.
9. Press the hash **[#]** key to exit from the current location, the ARMED LED will turn off and the READY indicator will continue flashing.
10. Repeat steps 2 to 9 until all locations, and their sub-locations, have been programmed as required.
11. Press the **[#]** hash key again to exit from program mode (READY LED will stop flashing).

7.4

Programming a Bitmapped Location

1. A bitmapped location allows the installer to program multiple panel features within a single location or sub-location. This is achieved using the individual zone LED's to indicate which features are enabled or disabled.
2. By referring to the appropriate location reference tables, the installer can view the entire selection of features associated with that location.
3. An on zone LED indicates that a feature is enabled. An off LED indicates that a feature is disabled.
4. The installer is able to toggle a selected LED indicator ON or OFF by entering the corresponding number followed by the **[*]** star key
5. Once a complete selection of features has been finalised, press the **[#]** key to leave the location/sub-location with the state as indicated by the LED.

Example:

Location 40 allows the installer to select up to twelve (fifteen with GSM & Voice Module fitted – EX version only) trouble conditions which may be displayed. By default, only AC fail and low battery trouble conditions are enabled.

Entering program mode and viewing the contents of Location 40 it will be noted that the zone 1 and zone 5 LED's will be come on. All other zone LED indicators will be turn off.

To enable the Comms Fail Trouble Display (indicated by zone 2 LED) press the **[2]** key followed by the **[*]** star key. A long beep will indicate a valid entry and the zone 2 LED will come on indicating that Comms Fail Trouble Display has been enabled.

Continue selection (or de-selection) of the desired trouble conditions. Once a final selection has been made press the **[#]** hash key to exit the location. The AWAY indicator will turn off and a long beep will indicate acceptance of a valid data entry.

7.5

Incorrect Data Entries

1. When programming either standard or extended locations any attempt to enter invalid data will result in an error beep (3 short beeps)
2. In the case of standard locations, the AWAY indicator will remain on after the error beeps. Re-enter the correct data. There is no need to press the **[#]** hash key.
3. In the case of extended locations, the AWAY and ARMED indicators will remain on after the error beeps. Re-enter the correct data. There is no need to press the **[#]** key.

7.6 Programming Location Summary

A detailed description of each location and its options follows.

LOCATION 0	Defaulting of the Panel or Master User Code
-------------------	--

Value	Action
0	Will reset all locations to the factory default values. (Master User Code 1234) and all keypad IDs will be defaulted.
1	Will default the master user code to 1234 - or 123456 if 6 digits are being used. Master user code properties will also be defaulted.
2	Defaults ALL users
3	Defaults ALL keypads
4	Remove Missing Devices Any missing devices (keypads, for example), will have its address freed up, making its address available for a new device when it is enrolled. This MUST be performed when replacing a faulty device – see “Enrolling Keypads and Other Devices”, page 14.

7.6.1 Zone Options

LOCATIONS 1 - 32	Individual Zone Setup
-------------------------	------------------------------

Sub-location 1	Zone Type
-----------------------	------------------

The first sub-locations of program LOCATIONS 1 - 32 are used to define the zone characteristics of each of the thirty two zones. There are 13 zone types. Table 3 provides a location/zone cross-reference together with the default zone characteristics.

Table 3 : Location / Zone Defaults

Zone	Location	Sub-location 1 Default	Zone Type
1	1	1	Entry / Exit
2	2	2	Follower
3	3	4	Audible Instant
4	4	4	Audible Instant
5	5	4	Audible Instant
6	6	4	Audible Instant
7	7	4	Audible Instant
8	8	4	Audible Instant
9	9	4	Audible Instant
10	10	4	Audible Instant
11	11	4	Audible Instant
12	12	4	Audible Instant
13	13	4	Audible Instant
14	14	4	Audible Instant
15	15	4	Audible Instant
16	16	4	Audible Instant
Table continues on the next page			

Table 3 : Location / Zone Defaults, Continued...

Zone	Location	Sub-location 1 Default	Zone Type
17	17	0	Disabled
18	18	0	Disabled
19	19	0	Disabled
20	20	0	Disabled
21	21	0	Disabled
22	22	0	Disabled
23	23	0	Disabled
24	24	0	Disabled
25	25	0	Disabled
26	26	0	Disabled
27	27	0	Disabled
28	28	0	Disabled
29	29	0	Disabled
30	30	0	Disabled
31	31	0	Disabled
32	32	0	Disabled

Table 4 provides a complete list of the different zone types together with a description of their characteristics.

Table 4 : Programmable Zone Types

Value	Zone Type
0	DISABLED A Zone violation of a disabled zone is ignored by the control panel and will not be indicated on the keypad.
1	PRIMARY ENTRY / EXIT ZONE Violations of an Entry/Exit zone are ignored during the exit delay period of the arming procedure. Violating an Entry/Exit zone when armed will initiate the entry delay. If valid User Code is not entered before the entry delay period expires, an alarm condition will be registered. Failure to exit through an Entry/Exit zone after arming will cause the panel to Stay Arm. This zone may also function as an entry/exit zone that is COMMON to two partitions. In such a case, should a user violate this zone and then disarm his partition, the OTHER partition will re-arm after the entry delay.
8	SECONDARY ENTRY / EXIT ZONE The secondary entry delay will be activated if this zone is violated when the panel is armed.
2	FOLLOWER ZONE A violation of a Follower zone is ignored during the entry/exit delay period (this allows the user to enter/exit via the follower zone). A Follower zone will behave as an instant zone if the panel is armed and an entry/exit zone is not violated prior to violation of the follower zone.
3	PANIC / PRIORITY ZONE Regardless of whether the panel is armed or not, a violation of a Priority zone will cause the control panel to register a panic condition. This zone type CANNOT be bypassed.
4	INSTANT ZONE When the panel is armed, the violation of an instant zone will cause the control panel to register an alarm condition.

5	ARM / DISARM ZONE The violation of an Arm/ Disarm zone will cause the panel to toggle between (away) armed and disarmed. It is typical to connect a momentary key-switch, or non-latching remote control unit to this zone.
9	RESERVED
10	FIRE ZONE Violation of a Fire Zone will cause the siren to sound regardless of whether the panel is armed or not. The siren will sound intermittently (one second on, one second off) For correct operation a programmable output programmed as a fire detector power output must be used to control power to the fire detector.
11	TAMPER ZONE Violation of this zone will be reported to the base station regardless of whether the panel is armed or disarmed. If the panel is armed, the siren will be activated.
12	24 HOUR ALARM ZONE This works the same as a panic zone – with the exception that it is able to be bypassed.
13	WARNING ZONE When the panel is armed, violation of a warning zone will cause the siren to beep. The violation is logged in the event log but it is not reported to the base station. Warning zones may be included and will be counted when used as part of the cross-zone matrix.
14	PUSH TO ARM ZONE Violation of a push to arm zone during the exit delay will immediately arm the panel.
15	OUTDOOR INSTANT ZONE When the panel is armed violation of an outdoor instant zone will cause the panel to register an alarm condition.

Sub-location 2	Zone Properties (Defaults Shaded)
-----------------------	--

Bitmapped location – select all properties for Zone

LED	ON / OFF	Zone Properties
1	ON	Tamper by Zone Enabled
	OFF	Tamper by Zone Disabled
2	ON	Cross-Zone Enabled
	OFF	Cross-Zone Disabled
3	ON	Shutdown Zone Enabled
	OFF	Shutdown Zone Disabled
4	ON	Silent Zone Enabled
	OFF	Silent Zone Disabled
5	ON	Second Loop Response Enabled
	OFF	Second Loop Response Disabled

Further zone related functionality explained

Tamper by Zone

Individual zones may be enabled for tamper by zone. For connection details, see Figure 2. This feature is not available if zone doubling is enabled. (See Figure 3, page 12 and Location 38, page 26)

Cross-Zoning

This feature is useful for reducing false alarms. Violating zones with the cross-zone property enabled will not immediately generate an alarm. The Cross-Zone Delay Timer is started. See Location 36.

Depending on the value programmed into location 37 (Cross-Zone Trip Count), the zone (or any other zone with cross-zone option enabled) must trip the number of times programmed into location

37 before an alarm is generated. An alarm will also be generated should any single zone remain violated for the entire delay period (Location 36). An entry/exit cannot be cross-zoned.

Swinger Shutdown

During a single arm cycle if the number of alarm violations generated by a swinger zone equals the shutdown count (Location 33) the control panel will automatically bypass the that zone. The swinger shutdown counter will reset when the system is disarmed and can be programmed to reset automatically when the 24 hour self test report is generated. See Sub-location 5 of Locations 128 and 135 [Partition Setup]

Silent Zone

This property allows any zone that would ordinarily activate the siren to be programmed as a silent zone i.e. the violation of a silent zone while the system is armed will not activate the siren. However, the relevant reporting code (if programmed) will still be reported.

Zone Reporting Codes

NOTE:

For the following locations, a two digit hexadecimal code must be programmed. To disable a reporting code a double zero (00) must be entered. If a zero is to be reported, it must be entered as hexadecimal value A, i.e. **[MODE] [0]**. In the event that only 1 of the digits is programmed or an A is incorrectly programmed as a zero the code will not be reported. If domestic reporting is used, only the first digit of the reporting code is required / used.

Sub-location 3	Alarm Reporting Code
-----------------------	-----------------------------

This is the code transmitted when the zone is violated during an arm cycle or if a panic or 24 Hour Zone is violated.

Sub-location 4	Alarm Restoral Reporting Code
-----------------------	--------------------------------------

The zone restoral code is transmitted when the zone has returned to the "unviolated" condition after triggering an alarm.

Sub-location 5	Bypass Reporting Code
-----------------------	------------------------------

A zone bypass code will be reported when a zone has been bypassed and the panel is armed.

Sub-location 6	Force Arm Reporting Code
-----------------------	---------------------------------

This code will be transmitted if a partition is programmed to allow forced arming (arming with a violated zone) and a zone is violated at the time of arming.

Sub-location 7	Tamper Reporting Code
-----------------------	------------------------------

The tamper code will be reported if tamper-by-zone has been enabled and a zone tamper occurs.

Sub-location 8	Tamper Restore Reporting Code
-----------------------	--------------------------------------

When a zone tamper condition clears, this code will be reported.

Sub-location 9	Swinger Shutdown Reporting Code
-----------------------	--

The swinger shutdown zone code will be reported if the system is armed and a zone is automatically bypassed as a result of multiple violations of that zone.

Sub-location 10	Swinger Shutdown Restore Reporting Code
------------------------	--

If enabled, this code will be reported when a swinger shutdown zone is automatically restored i.e. un-bypassed.

Sub-location 11	Zone Programmable Output Location
------------------------	--

A programmable output will be pulsed or latched, high or low if a zone causes an alarm condition. If pulsed, the output will be pulsed for the time programmed in Sub-location 1 of Locations 388 - 399.

Two digits must be programmed for each zone. The first digit references the programmable output number e.g. output 1 to 5 (7 with an expander). The second digit sets the output action. Refer "System Programmable Outputs" (Page 32) for a detailed description on Programming Programmable Outputs.

Sub-location 12	Zone Name Editing (Only with LCD keypads)
------------------------	--

Zones may be given appropriate names, like "Front Door" for zone 1, etc. When the zone is triggered, the display will indicate "Front Door", instead of "Zone 1". (Full instructions are included in the LCD keypad manual.)

7.6.2 System Options

LOCATION 33	Zone Shutdown Count (Default = 5)
--------------------	--

Determines the number of times a zone may be violated during an arm cycle before it is automatically bypassed. Select zones individually for this option in locations 1 – 32s (Sub-location 2). Valid range of data for this location is 1 to 15.

LOCATION 34	Programmable Zone Loop Response Time
--------------------	---

Value	Response Time
0	6 ms
1	12 ms
2	24 ms
3	36 ms
4	48 ms
5	60 ms
6	72 ms
7	48 ms

Value	Response Time
8	96 ms
9	108 ms (default)
10	120 ms
11	132 ms
12	144 ms
13	156 ms
14	168 ms
15	180 ms

The zone loop response is the period of time for which the programmed zone must remain violated before a violation is registered. Unless the Second Loop Response Time is selected, this location will determine the response time.

LOCATION 35	Second Loop Response Time
--------------------	----------------------------------

The first and second loop response times are two preset delay periods that are initiated by the options selected in locations 1 to 32, sub-location 2, bit 5.

Value	Response Time	Value	Response Time
0	6 ms	8	96 ms
1	12 ms	9	108 ms
2	24 ms (default)	10	120 ms
3	36 ms	11	132 ms
4	48 ms	12	144 ms
5	60 ms	13	156 ms
6	72 ms	14	168 ms
7	48 ms	15	180 ms

LOCATION 36	Cross-Zone Delay Timer
--------------------	-------------------------------

This location defines the cross-zone delay timer period.

Value	Response Time
0	3 seconds
1	10 seconds
2	15 seconds
3	20 seconds (default)
4	25 seconds
5	30 seconds
6	45 seconds
7	1 Minute

LOCATION 37	Cross-Zone Count (Default = 2)
--------------------	---------------------------------------

If the panel is armed and the total number of violations of zones programmed as cross-zones reaches this count within the time period programmed into location 36, an alarm condition will be registered. Program a value from [0] to [1] [5]. A [0] will disable this location. Program zones as cross-zones in sub-location 2 of locations 1 to 16. Any single zone enabled for cross zoning, which is violated continuously for the time specified in Location 36 will also register an alarm condition.

LOCATION 38	Global Options
--------------------	-----------------------

LED	ON / OFF	Action
1	ON	A user assigned to any partition may cancel the siren
	OFF	Only a user assigned to the partition that triggered the siren may cancel the siren
2	ON	Enables keypad trouble beep
	OFF	Disables keypad trouble beep
3	ON	Enables telephone line monitoring
	OFF	Disables telephone line monitoring
4	ON	RESERVED
	OFF	RESERVED
5	ON	Enables keypad beep on communication
	OFF	Disables keypad beep on communication
6	ON	Enables keypad Fire, Medical and Panic keys
	OFF	Disables keypad Fire, Medical and Panic keys
7	ON	Enables the display of bypassed and stay zones when armed in the stay mode
	OFF	Disables the display of bypassed and stay zones when armed in the stay mode
8	ON	Enables the siren delay
	OFF	Disables the siren delay
9	ON	Enables zone doubling (All expanded / keypads zones ignored)
	OFF	Disables zone doubling (expansion / keypad zones can be used to expand the system to sixteen zones.)
10	ON	Enable Box Tamper
	OFF	Disable Box Tamper
11	ON	Enable Siren Tamper
	OFF	Disable Siren Tamper
12	ON	Enable 485 Device Tamper
	OFF	Disable 485 Device Tamper
13	ON	Dedicated Panic Zone – Silent
	OFF	Dedicated Panic Zone – Audible

LOCATION 39	AC Fail / Restore Time
--------------------	-------------------------------

Value	Delay
0	3 seconds
1	10 seconds
2	15 seconds
3	20 seconds
4	25 seconds
5	30 seconds
6	45 seconds
7	1 minute
8	2 minutes
9	3 minutes
10	4 minutes
11	5 minutes
12	10 minutes
13	15 minutes
14	18 minutes
15	21 minutes
16	1 hour
17	2 hours
18	3 hours
19	4 hours
20	10 hours

In the event of a power failure (although instantly displaying the trouble indication) the panel will wait for this period of time before REPORTING the mains failure. The same time period applies before the restoral event is reported and logged. This delay eliminates unnecessary reporting if the AC power is removed for a short time period.

It is important to note that an AC restoral will only be reported if an AC failure was reported, i.e. the delay period was exceeded. Provided the back up battery is in good condition, short AC power failures will not affect the functioning of the alarm system. Select the appropriate value from the table above.

LOCATION 40	Trouble Display
--------------------	------------------------

LED	ON/ OFF	Action
1	ON	Enable AC fail trouble display
	OFF	Disable AC fail trouble display
2	ON	Enable Comms fail trouble display
	OFF	Disable Comms fail trouble display
3	ON	Enable phone line trouble display
	OFF	Disable phone line trouble display
4	ON	Enable siren tamper trouble display
	OFF	Disable siren tamper trouble display
5	ON	Enable low battery detection trouble display
	OFF	Disable low battery detection trouble display
6	ON	Enable clock loss trouble display
	OFF	Disable clock loss trouble display
7	ON	Enable engineer's reset trouble display
	OFF	Disable engineers reset trouble display
8	ON	Enable box tamper trouble display
	OFF	Disable box tamper trouble display
9	ON	Reserved
	OFF	Reserved
10	ON	Enable 485 device trouble display
	OFF	Disable 485 device trouble display
11	ON	Enable bus trouble display
	OFF	Disable bus trouble display
12	ON	Enable Aux. 12V trouble display
	OFF	Disable Aux. 12V trouble display
13	ON	Reserved
	OFF	Reserved
14*	ON	Enable SIM Code Trouble Display
	OFF	Disable SIM Code Trouble Display
15*	ON	Enable GSM Modem Trouble Display
	OFF	Disable GSM Modem Trouble Display
16*	ON	Enable Low Airtime Trouble Display
	OFF	Disable Low Airtime Trouble Display

Default values are shaded

* Applicable only with IDS GSM Communicator installed

Location 40 determines which trouble conditions are displayed on the trouble menu. A trouble condition is indicated by a flashing POWER LED. Notwithstanding the disabling of a trouble condition from the viewing menu the relevant code will be reported if programmed to do so.

Trouble conditions will be reported if programmed to do so in locations 118, 119 & 120, regardless of whether or not they are enabled for display.

The trouble condition can be viewed by holding down the **[7]** key for three seconds. See "Viewing Trouble Conditions" in the user manual.

LOCATION 41	Siren Time Out Period
--------------------	------------------------------

Value	Delay
0	3 seconds
1	10 seconds
2	15 seconds
3	20 seconds
4	25 seconds
5	30 seconds
6	45 seconds
7	1 minute
8	2 minutes
9	3 minutes
10	4 minutes
11	5 minutes
12	10 minutes
13	15 minutes
14	18 minutes
15	21 minutes

The siren time out period is the period of time for which the siren will sound after an audible alarm condition is registered. Select the appropriate time period from the table above.

LOCATION 42	Siren Delay
--------------------	--------------------

When an audible alarm is registered, a delay can be implemented before the siren is triggered. The alarm will however be reported as soon as it occurs. Enable option 8, Location 38.

Value	Delay
0	3 seconds
1	10 seconds
2	15 seconds
3	20 seconds
4	25 seconds
5	30 seconds
6	45 seconds
7	1 minute
8	2 minutes
9	3 minutes
10	4 minutes
11	5 minutes
12	10 minutes
13	15 minutes
14	18 minutes
15	21 minutes

LOCATION 43	Keypad Lockout Count (Default = 4)
--------------------	---

If a partition has keypad lockout enabled this value determines the number of consecutive incorrect codes that will activate a keypad lockout. The keypad will remain locked for the time programmed in Location 44. Activating a Keypad Panic (or Medical or Fire Emergency) will unlock the keypad.

LOCATION 44	Keypad Lockout Time (Default = 30 seconds)
--------------------	---

The value programmed into this location determines the keypad lockout period. The valid range is 0 - 255 seconds.

NOTE:

Keypad lockout is enabled by partition.
See Partition Options Page 48, Sub-location 5.

LOCATION 45	Keypad Sleep Delay
--------------------	---------------------------

The values stored in this location work in the same way as siren delay (table on page 29). The default value is 11, which equates to 5 minutes.

NOTE:

This function is set individually per keypad (locations 400 to 415). After this time period, if there is no keypad activity (on this keypad) the backlighting and all other status and alarm indicators will turn off. The power LED and if appropriate, the arm LED will remain on.

LOCATION 46	User and Installer Code Number of Digits
--------------------	---

This location determines whether 4 or 6 digit user / installer codes are applicable. Only a value of four or six may be programmed into this location. By default, all codes are four digits in length.

The value programmed into this location has no effect on the download code, which are always 4 digits in length.

Code	Old four-digit code	New six-digit code
All Previously Programmed codes	XXXX	XXXX00
Installer Code	9999	999999
Master User Code 1	1234	123456

8. System Reporting Codes (4 x 2 and Domestic)

For all these locations, a two digit hexadecimal code must be programmed. To disable a reporting code a double zero (00) must be entered into the corresponding location. Note that if one of the above mentioned reporting digits is inadvertently omitted or programmed as a zero, the code will not be reported. The exception to this rule is when using domestic reporting where only the first digit is used.

LOCATION 47	AC Failure Reporting Code
--------------------	----------------------------------

The control panel will transmit this code in the event of an AC failure but only after the AC failure delay time has elapsed (See Location 39).

LOCATION 48	AC Restoral Code
--------------------	-------------------------

The control panel will transmit this code once the AC restore delay time has elapsed. (See location 39). It will however only be reported if an AC failure was registered as per location 47.

LOCATION 49	Low Battery Reporting Code
--------------------	-----------------------------------

A low battery condition is reported when the battery voltage drops below 11.8V for a period longer than 5 minutes or immediately if it drops below 10V.

LOCATION 50	Battery Restore Reporting Code
--------------------	---------------------------------------

This code is reported once the battery voltage rises above 12 volts for a period of five minutes.

LOCATION 51	Auto Test Reporting Code
--------------------	---------------------------------

This code is reported at regular intervals. See location 112, page 37.

LOCATION 52	Download Access Reporting Code
--------------------	---------------------------------------

This code is reported once successful access to the panel has been obtained.

LOCATION 53	Siren Trouble Reporting Code
--------------------	-------------------------------------

This code is reported when the siren fuse blows or when the siren or siren wiring is tampered with.

LOCATION 56	Device Tamper Reporting Code
--------------------	-------------------------------------

This code is reported when there is a tamper condition on any external device attached to the keypad bus.

LOCATION 57	Keypad Bus Failure Reporting Code
--------------------	--

This code is reported when there is a fault on the keypad bus

LOCATION 58	Box Tamper Reporting Code
--------------------	----------------------------------

This code is reported when the box tamper contacts are open for a period exceeding 200 ms.

LOCATION 59	Dedicated Panic Reporting Code
--------------------	---------------------------------------

This code is reported when the dedicated panic zone is violated.

LOCATION 60	Phone Line Restoral Reporting Code
--------------------	---

If phone line monitoring is enabled (Location 38), this code is reported once phone line integrity has been restored to indicate that the phone line has been tampered with.

LOCATION 61	RF Jamming Reporting Code
--------------------	----------------------------------

This reporting code will be reported if a jamming signal is detected by the RF receiver module for a period exceeding 30 seconds.

LOCATION 62	RF Jamming Restore Reporting Code
--------------------	--

This reporting code will be reported once the jamming signal has ceased for a period exceeding 30 seconds.

9.

System Programmable Outputs

Programming the Outputs:

Programmable outputs are able to toggle between different states when specific system events occur. Either single or multiple events may be programmed to a particular output.

For most events the action of an output, when triggered, is programmable. To program these events a two digit code must be entered. The output action for certain events is fixed – and function driven, the strobe function is one example. For these events, only a single digit code need be programmed.

There are eight programmable outputs on the IDS 1632 Alarm Panels and a further two programmable outputs on each of the optional Wired Zone Expander modules. When selecting outputs, programmable outputs on the Alarm Panels are addressed from “1” to “12”.

Outputs on the Wired Zone Expanders are addressed as “9”, “10”, “11” and “12” – (refer to table 5).

Table 5 : Programmable Output Numbering

Value	Programmed as	Output Addressed
0	[0]	No Output Addressed
1	[1]	Panel - Programmable Output 1
2	[2]	Panel - Programmable Output 2
3	[3]	Panel - Programmable Output 3
4	[4]	Panel - Programmable Output 4
5	[5]	Panel - Programmable Output 5
6	[6]	Panel - Programmable Output 6
7	[7]	Panel - Programmable Output 7
8	[8]	Panel - Programmable Output 8
9	[9]	Zone Expander 2 - Programmable Output 2
10	[MODE] [0]	Zone Expander 2 - Programmable Output 1
11	[MODE] [1]	Zone Expander 1 - Programmable Output 2
12	[MODE] [2]	Zone Expander 1 - Programmable Output 1

There are 4 permitted output actions that may be selected.

Table 6 : Output Actions

Value	Output Action
0	Set Output High (Set)
1	Set Output Low (Reset)
2	Pulse Output High
3	Pulse Output Low

When programming these outputs a two-digit code must be entered. The first digit references the programmable output number (Table 5) and the second digit references the output action (Table 6).

Example:

Entering a value of [1][0] into location 70 will cause Panel Programmable Output 1 to be set (latched) high in the event of an AC Mains Failure. Entering a value of [1][1] into location 71 will cause the Panel Programmable Output 1 to be set (latched) low in the event of an AC Mains Restoral.

When programming a programmable output whose action is fixed only a single digit need be entered. This digit references the programmable output number (Table 5).

Example:

Programming a value of **[7]** into Sub-location 42 of Location 129 will cause the Zone Expander Programmable Output 1 to follow the Siren Output for Partition 2.

NOTE:

When connecting any device with a high current requirement to a programmable output a suitable relay must be used. DO NOT connect such devices directly to the programmable outputs as this may damage the output circuitry.

LOCATIONS 70 - 87	Event Driven Programmable Outputs
--------------------------	--

Table 7 : Event Driven Programmable Outputs

Loc.	Event	Output	Default Action
70	AC Fail Programmable Output	disabled	
71	AC Restore Programmable Output	disabled	
72	Low Battery Programmable Output	disabled	
73	Battery Restore Programmable Output	disabled	
74	Auto Test Programmable Output	disabled	
75	Download Programmable Output	disabled	
76	Siren Trouble Programmable Output	disabled	
77	Aux 12V Trouble Programmable Output	disabled	
78	Keypad Fuse Programmable Output	disabled	
79	485 Device Tamper Programmable Output	disabled	
80	485 Bus Failure Programmable Output	disabled	
81	Box Tamper Programmable Output	disabled	
82	Dedicated Panic Programmable Output	1	Pulse High [2]
83	Communication Fail Programmable Output	disabled	
84	Phone Line Tamper Programmable Output	disabled	
85	Phone Line Restore Programmable Output	disabled	
86	RF Jamming Programmable Output	disabled	
87	RF Jamming Restore Programmable Output	disabled	

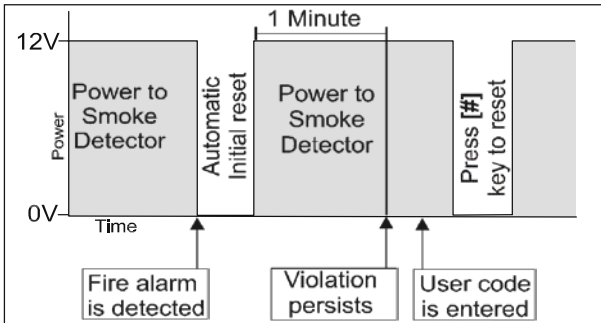
LOCATIONS 95 – 96	Function Driven Programmable Outputs
--------------------------	---

Table 8 : Function Driven Programmable Outputs

Summary of System function Driven Programmable outputs

Loc.	Function	Output
95	Fire Sensor Power Programmable Output	Disabled
96	Dual Reporting Programmable Output	Disabled

Figure 6 : Fire Detect Output Sequence



NOTE:

Since multiple conditions may be programmed to a single output it is essential to ensure that no unwanted conditions are assigned to an output.

Dual Reporting Output

If dual reporting is enabled this output will be set when the panel dials the second phone number, and cleared when it hangs up at the end of transmission. This output follows the hook relay. It may be used to trigger switching from the telephone line to a radio transmitter.

10. System Clock Options

LOCATION 98	System Time
--------------------	--------------------

Enter the system time. The format is "hhmm" and is based on a 24 hour clock. (All 4 digits must be entered.)

LOCATION 99	System Day of Month
--------------------	----------------------------

Enter a two digit value of the current day of the month. Valid range 01 to 31.

LOCATION 100	System Month
---------------------	---------------------

Enter the month as a value from 01 to 12.

LOCATION 101	System Year
---------------------	--------------------

Enter the current year as a four digit value e.g. 2007.

LOCATION 102	System Day of Week
---------------------	---------------------------

Enter the current day of the week. Refer to table below.

Table 9 : Value for Day of the Week

Value	Day
1	Monday
2	Tuesday
3	Wednesday
4	Thursday
5	Friday
6	Saturday
7	Sunday

LOCATION 103	Month to Start Daylight Saving
---------------------	---------------------------------------

Enter the month when Daylight Saving will commence.

LOCATION 104	Day of Week to Start Daylight Saving
---------------------	---

Enter which day of the week Daylight saving is to commence.
Refer to Location 102 Table 9.

LOCATION 105	Week of Month to Start Daylight Saving
---------------------	---

Enter which week of the month Daylight Saving is to commence. If the last week of the month is wanted, program a five (5).

LOCATION 106	Month to Return to Standard Time
---------------------	---

Enter the month when Daylight Saving reverts back to standard time.

LOCATION 107	Day of Week to Return to Standard Time
---------------------	---

Enter which day of the week (Table 9) that Daylight Saving returns to standard time.

LOCATION 108	Week of Month to Return to Standard Time
---------------------	---

Enter which week of the month Daylight Saving will return to standard time. If it is to be the last week of the month, program a five (5).

LOCATION 109	Daylight Saving Time Offset
---------------------	------------------------------------

This location is used for setting the Daylight Saving offset. Enter the number of minutes the clock will offset - Valid range 0 to 250.

11.**Communicator Options****LOCATION 110****Communication Delay**

Value	Delay
0	3 seconds
1	10 seconds
2	15 seconds
3	20 seconds
4	25 seconds
5	30 seconds
6	45 seconds
7	1 minute
8	2 minutes
9	3 minutes
10	4 minutes
11	5 minutes
12	10 minutes
13	15 minutes
14	18 minutes
15	21 minutes

If delayed communications is enabled for either partition - (See locations 128 to 135 for Partition Setup) the panel will wait for this period before reporting zone violations and restorals. If the alarm is cancelled within this time zone, violations and restorals will not be reported. Violations will however be logged in the event log. Panic events will be reported instantly – regardless of any selected delay period.

LOCATION 111**Reporting Options**

LED	On / Off	Action
1	ON	Tone Dialling Enabled
	OFF	Pulse Dialling Enabled
2	ON	Join the telephone numbers together
	OFF	Keep two separate telephone numbers
3	ON	Enable Dual Reporting
	OFF	Disable Dual Reporting
Single reporting options (LED 3 off)		
4	ON	Reports to secondary number only after failing on attempting the primary number. (Panic event initiates dual reporting)
	OFF	Alternates reporting attempts between both numbers until successful with one of them. (Single reporting, regardless of panic)

NOTE:

- The panel may be programmed to report to a single central station (single reporting) or to report to 2 central stations (dual reporting).
- When programmed for single reporting, the panel default will alternate attempts between the two “equally ranked” stored numbers. With LED 4 on, the secondary number will only be called if the

attempt to report to the primary number fails. In either case, the number of attempts (per phone number) will be equal to the number stored in location 115, with a default value of 6.

➤ The primary and secondary telephone numbers may be joined to provide for a single telephone number of 48 digits in length.

LOCATION 112	Auto Test Interval
---------------------	---------------------------

Value	Time Period
0	Report every hour
1	Report daily (default)
2	Every two days
3	Every three days
4	Every four days
5	Every five days
6	Every six days
7	Every seven days
8	Every eight days
9	Every nine days
10	Every ten days
11	Every eleven days
12	Every twelve days
13	Every thirteen days
14	Every fourteen days
15	Every fifteen days

The value programmed into this location will determine the duration of time between Auto Tests.

LOCATION 113	Auto Test Time
---------------------	-----------------------

Enter the time when the auto test will be reported. The format is “hhmm” based on a 24 hour clock. (All four digits must be entered.)

Example:

If a value of **[7]** was programmed into location 112 and **[1400]** was programmed into this location, the auto test would be sent weekly at 2:00pm.

LOCATION 114	Number of Account Code Digits (Default = 4)
---------------------	--

Most reporting formats use a 4 digit account code. Program a 6 into this location to enable six digit account code reporting.

LOCATION 115	Number of Dial Attempts (Default = 6)
---------------------	--

This location determines the maximum number of dial attempts that the panel will make in order to contact the base station.

NOTE:

Entering **[0]** into this location will disable the dialler.

LOCATION 116	Primary Communicator Format
---------------------	------------------------------------

Value	Format Name	Description
0	Ademco Express	Dual Tone HS, DTMF
1	FBI 4 x 2 (With Parity)	1.8kHz TX, 2.3kHz HS, 40PPS
2	FBI 4 x 2 (No Parity)	1.8kHz TX, 2.3kHz HS, 20PPS
3	Silent Knight 4 x 2 Fast	1.9kHz TX, 1.4kHz, 20PPS
4	Silent Knight 4 x 2 Slow	1.9kHz TX, 1.4kHz, 20PPS
5 (Default)	Contact ID	Dual Tone HS, DTMF
6	Domestic Reporting	1.8kHz TX, Blind, 20PPS
7	SIA Reporting	Bell 103 FSK, HS
8	SMS/GSM Reporting	Sends SMS to prescribed Nos.
9	Voice Reporting**	Reports to prescribed numbers

TX = Transmit
 HS = Handshake
 PPS = Pulses per Second

The value entered into location 116 selects the primary communicator format. Select from the table above the value appropriate to the required format. During communication, the green LED on the PCB will come one indicating that the panel has taken the telephone off-hook. If programmed accordingly (see location 38), the keypad will beep after receiving a handshake from the base station. This indicates a successful transmission of data.

Notes on Voice Reporting

Voice reporting works automatically with DTMF dialling once a Voice Module is installed on the Panel. The voice tells the user what has happened on the panel.

For events that cause a voice report, the Panel will call the relevant number. Six seconds after it has dialled the last digit, it will begin speaking out its report, speaking each event three times. After all events are spoken out three times, it hangs up. This identical call is made the number of times stored in Location 115.

The user may terminate the report for the current event by entering their user code (if enabled in loc 128/129 sub loc 5 bit 5) and then hanging up by pressing #. The call will end and the Panel will not call again until another reportable event occurs.

Stop report and control the Alarm Panel

If the user enters a valid code during the voice report, the voice report is halted and a DTMF-driven menu system, with voice prompting, is available by which the user may control the Alarm Panel.

The user may access this control menu by dialling the number of the phone line that the Alarm Panel wired to (if enabled).

LOCATION 117	Secondary Communicator Format
---------------------	--------------------------------------

If dual reporting is enabled then this format will be used to report to phone number 2. (See the same Table for location 116.)

NOTES ON DUAL REPORTING

When dual reporting is enabled, it is possible to select two different formats. In this instance all data will be transmitted to each phone number (i.e. reported twice) using a different format per phone number.

NOTES ON CONTACT ID / SIA

If the panel has been programmed to use the Contact ID or SIA format, it will not be necessary to program individual reporting codes. Provision is made to enable/disable the reporting of certain groups of codes. See location 118 to 120. Table 10 contains a list of standard (default) Contact ID reporting codes. Any event that relates to a specific zone, or to a specific user, will have the relevant zone/user number appended to the end of the Contact ID reporting code.

Table 10 : Standard Contact ID Reporting Codes

Description	Codes	Description	Codes
Keypad Medical	1100	Cancel	1406
Fire	1110	Open by Download	1407
Keypad Fire	1110	Open with Key-switch	1409
Panic	1120	Low Battery	1302
Panic Zone	1120	Sounder / Relay Trouble	1320
Keypad Panic	1120	Expansion Module Fail	1333
Duress	1121	Zone/ Sensor Bypass	1570
Burglary violation	1130	Zone / Sensor Bypass Restoral	3570
Perimeter Violation	1131	Burg. Bypass	1573
Interior Violation	1132	Test Report	1602
24 Hour (Safe) violation	1133	Panic Restore	3120
Entry/ Exit violation	1134	Zone Restoral	3130
Day/ night violation	1135	Keypad Tamper restore	3137
Outdoor violation	1136	Zone Restoral	3130
Tamper violation	1137	Sensor Tamper Restore	3144
Keypad Tamper	1137	Expansion Module Tamper Restore	3145
Keypad lockout	1137	RF Low Battery Restore	3384
Near Alarm Violation	1138	Close by User	3401
Tamper by Zone	1144	Close by Auto Arm	3403
Expansion Module Tamper	1145	Close by Download	3407
Exp. Module Low Bat	1338	Close with Key-switch	3409
RF Receiver Jam Detect	1344	Expansion Module Fail Restore	3333
Long Range Transmitter Fault	1353	AC Loss	3321
Loss of Supervision RF	1381	AC Restoral	3333
RF Low Battery	1384	Low Battery Restore	3302
Open by User	1401	Sounder / Relay Restore	3320

NOTES ON DOMESTIC REPORTING:

If Dual Reporting is enabled, Domestic reporting may either be reported to 2 telephone numbers or using the dual reporting option, report to a central station as well as to an individual mobile phone etc. This format provides for a simple form of easily identifiable remote alarm which may be reported to an office, mobile phone etc.

A series of tones is transmitted to the phone that notifies the user that an alarm condition has occurred. If a 1 is programmed to a location, a single beep will be heard if that particular alarm condition occurs. If a 2 is programmed to a location, 2 beeps will be heard etc.

Typing the user code and pressing the [#] key on the phone will terminate the reporting process. If this is not done, the panel will keep calling that same number for the number of times stored in location 115 (number of dial attempts).

NOTE:

If the system is armed using the quick arm key [1] the system will report a close by **user 35**.

If the system is armed by means of a key-switch or non-latching remote receiver connected to an arm/disarm zone the system will report a close by **user 34**.

SIA Reporting Codes

Table 11 : Standard SIA Reporting Codes

Description	Codes	Description	Codes
Close	CL	Siren Restore	YH
Stay Close	CG	Battery Restore	YR
Open	OP	Aux12v Restore	YQ
Cancel	OC	Keypad Restore	YQ
Access	DG	Box Tamper Restore	TH
Zone Violate	BA	Device Restore	EN
Zone Alarm Restore	BH	Bus Comms Restore	ER
Zone Bypass	BB	Prog Op Restore	YQ
Zone Force	XW	Dedicated Pan Rest	PR
Zone Tamper	BT	Test Report	TX
Zone Tamper Restore	BJ	Download	RB
Zone Shutdown	BB	Duress	HA
Zone Shutdown Restore	BU	KP Panic	PA
AC Fail	AT	KP Fire	FA
Comms Fail	YC	KP Medical	MA
Line Tamper	LT	KP Lockout	JA
Siren Fail	YA	Delinquency	CD
Battery Low	YT	RF Jam	XQ
Aux12v Fuse	YP	RF Jam rest	XH
Keypad Fuse	YP	RF Sup Fail	BZ
Box Tamper	TA	RF Pass Low Batt	XT
Device Fail	EM	RF Pass Batt ok	XR
Bus Comms Fail	ET	RF Rec Low Batt	ET
Prog Op Fuse	YP	RF Rec Batt ok	ER
Dedicated Pan	PA	Zone Exp Low Batt	ET
AC Restore	AR	Zone Exp Batt ok	ER
Comms Restore	YK	Fire Code	FA
Line Tamper Restore	LR	Entry Alarm	EA

Enabling / Disabling Reporting Groups

Locations 118 to 120 are used to either enable or disable the reporting of groups of reporting codes when using Contact ID, or SIA.

LED	ON / OFF	Action
1	ON	Enable Close Reporting Code
	OFF	Disable Close Reporting Code
2	ON	Enable Stay Close Reporting Code
	OFF	Disable Stay Close Reporting Code
3	ON	Enable Open Reporting Code
	OFF	Disable Open Reporting Code
4	ON	Enable Cancel Reporting Code
	OFF	Disable Cancel Reporting Code
5	ON	Enable Alarm Reporting Code
	OFF	Disable Alarm Reporting Code
6	ON	Enable Restore Reporting Code
	OFF	Disable Restore Reporting Code
7	ON	Enable Bypass Reporting Code
	OFF	Disable Bypass Reporting Code
8	ON	Enable Force Reporting Code
	OFF	Disable Force Reporting Code
9	ON	Enable Tamper Reporting Code
	OFF	Disable Tamper Reporting Code
10	ON	Enable Tamper Restore Reporting Code
	OFF	Disable Tamper Restore Reporting Code
11	ON	Enable Shutdown Reporting Code
	OFF	Disable Shutdown Reporting Code
12	ON	Enable Shutdown Restore Reporting Code
	OFF	Disable Shutdown Restore Reporting Code
13	ON	Enable AC Fail Reporting Code
	OFF	Disable AC Fail Reporting Code
14	ON	Enable AC Restore Reporting Code
	OFF	Disable AC Restore Reporting Code
15	ON	Enable Low Battery Reporting Code
	OFF	Disable Low Battery Reporting Code
16	ON	Enable Battery Restore Reporting Code
	OFF	Disable Battery Restore Reporting Code

LED	ON / OFF	Action
1	ON	Enable Test Report Reporting Code
	OFF	Disable Test Report Reporting Code
2	ON	Enable Download Reporting Code
	OFF	Disable Download Reporting Code
3	ON	Enable Siren Fuse Trouble Reporting Code
	OFF	Disable Siren Fuse Trouble Reporting Code
4	ON	Enable Aux. 12V Trouble Reporting Code
	OFF	Disable Aux. 12V Trouble Reporting Code
5	ON	Enable Keypad Fuse Trouble Reporting Code
	OFF	Disable Keypad Fuse Trouble Reporting Code
6	ON	Enable 485 Device Tamper Reporting Code
	OFF	Disable 485 Device Tamper Reporting Code
7	ON	Enable 485 Bus Tamper Reporting Code
	OFF	Disable 485 Bus Tamper Reporting Code
8	ON	Enable Box Tamper Reporting Code
	OFF	Disable Box Tamper Reporting Code
9	ON	Enable Dedicated Panic Reporting Code
	OFF	Disable Dedicated panic Reporting Code
10	ON	Enable Phone Line Restoral Reporting Code
	OFF	Disable Phone Line Restoral Reporting Code
11	ON	Enable Duress Reporting Code
	OFF	Disable Duress Reporting Code
12	ON	Enable Keypad Panic Reporting Code
	OFF	Disable Keypad Panic Reporting Code
13	ON	Enable Keypad Fire Reporting Code
	OFF	Disable Keypad Fire Reporting Code
14	ON	Enable Keypad Medical Reporting Code
	OFF	Disable Keypad Medical Reporting Code
15	ON	Enable Keypad Lockout Reporting Code
	OFF	Disable Keypad Lockout Reporting Code

LED	ON / OFF	Action
1	ON	Enable RF Jamming
	OFF	Disable RF Jamming
2	ON	Enable RF Jamming Restore
	OFF	Disable RF Jamming Restore
3	ON	RESERVED
	OFF	
4	ON	RESERVED
	OFF	
5	ON	RESERVED
	OFF	
6	ON	RESERVED
	OFF	
7	ON	RESERVED
	OFF	
8	ON	RESERVED
	OFF	
9	ON	RESERVED
	OFF	
10	ON	Enable SIM PIN Error
	OFF	Disable SIM PIN Error
11	ON	Enable GSM Modem Error
	OFF	Disable GSM Modem Error

11.1

Programming Telephone Numbers

For the telephone number locations a value of **[0]** is used as a termination digit. It is important therefore that any zeros (0) in the telephone number itself be entered as a **[10]**. All hexadecimal values are entered using the mode key (see table 2), page 18.

Enter numbers consecutively with no other key presses between each digit.

To dial a "0" program a **[10]** – by pressing **[MODE] [0]**

To dial a "*" program an **[11]** - by pressing **[MODE] [1]**

To dial a "#" program a **[12]** - by pressing **[MODE] [2]**

Inserting pauses

A pause may be inserted at any point within the telephone number: Entering a value of **[13]** (by pressing **[MODE] [3]**) will provide a 12 second pause and a value of **[15]** (by pressing **[MODE] [5]**) will provide a 4 second pause.

To terminate a telephone number, program a **[0]** immediately after the last digit of the telephone number.

Example:

Phone number 1 is to be dialled as follows:

[0] followed by a 4 second pause then [0317051373]. The key sequences are as follows:

Data entered	Explanation
[INSTALLER CODE][*]	To enter program mode
[1][2][1][*]	To enter location 121 (phone number 1)
[MODE][0]	To dial the zero
[MODE][5]	This programmes the 4 second pause
[MODE][0][3][1]	This programmes the area code
[7][MODE][0][5][1][3][7][3]	The remainder of the number
[0]	To mark the end of the number
[#]	To exit program mode

11.2 Telephone Number Storage Locations

LOCATION 121	Phone Number 1
---------------------	-----------------------

This location contains the primary telephone number. A maximum of 24 digits can be entered. Enter the digits consecutively and after the last digit has been entered, terminate with a [0].

LOCATION 122	Phone Number 2
---------------------	-----------------------

This location contains the secondary telephone number. A maximum of 24 digits can be entered. Enter the digits consecutively and after the last digit has been entered, terminate with a [0].

11.3 Download Options

LOCATION 123	Download Options
---------------------	-------------------------

LED	ON / OFF	Action
1	ON	Enable Fax Defeat
	OFF	Disable Fax Defeat
2	ON	Enable Forced Answer
	OFF	Disable Forced Answer
3	ON	Enable Auto Pickup
	OFF	Disable Auto Pickup
4	ON	Enable Call-back
	OFF	Disable Call-back

(Shading denotes default values)

Fax defeat is useful for downloading when a fax or answering machine is connected to the same phone line as the Alarm Panel. If this feature is enabled, dial the panel and hang up before three rings. Dial the panel again within one minute. The panel will then pick up the call on the first ring thereby preventing the fax / answering machine from answering the call before the alarm.

If forced answer is enabled the [8] key may be used to force the panel to go off hook, "answering the line".

If enabled, Auto Pickup will pick up the line after the number of rings programmed into location 124.

The Call-back feature when enabled, allows the download software/PC to request that the panel call it back using the phone number as programmed into location 125.

LOCATION 124	Number of Rings to Answer (Default = 15)
---------------------	---

This location determines the number of rings before the panel "answers" the telephone line. In the event that the panel answers the call and no valid download log on sequence is received within 40 seconds, and no DTMF is entered, the panel will terminate the call.

LOCATION 125	Call-back Phone Number
---------------------	-------------------------------

If Call-back is enabled in Download Options (Location 123) the phone number programmed into this location will be used to respond to a call-back request from the IDS Download Software/PC.

11.4	Cellphone Operation Settings
-------------	-------------------------------------

LOCATION 126	Cellphone Number Storage Sub-locations
---------------------	---

NOTE:

Locations 126 and 127 only apply to installations fitted with the IDS GSM Module.

Sub-location 1	Airtime Number
-----------------------	-----------------------

NOTE:

Only applicable to prepaid accounts, this is the number to be dialled to establish how much Airtime remains in the account associated with the SIM card installed in the GPRS Module)

The next five sub-locations hold the authorised cellphone numbers with which the panel will communicate. See location 127, sub-location 2 for setting SMS command rights.

Sub-location 2	SMS User 1 Cellphone Number
-----------------------	------------------------------------

Sub-location 3	SMS User 2 Cellphone Number
-----------------------	------------------------------------

Sub-location 4	SMS User 3 Cellphone Number
-----------------------	------------------------------------

Sub-location 5	SMS User 4 Cellphone Number
-----------------------	------------------------------------

Sub-location 6	SMS User 5 Cellphone Number
-----------------------	------------------------------------

LOCATION 127	PIN Code and SMS Options
---------------------	---------------------------------

Sub-location 1	SIM Card PIN Number
-----------------------	----------------------------

The SIM PIN code is stored here. Zeros are entered as zeros – NOT **[MODE] [0]** – as is the case with number to be dialled. This location is only relevant if the manufacturer has set up the module to be used with the user's own SIM card.

Sub-location 2	Accept SMS Commands from Cellphones
-----------------------	--

(Enter a value from 0 to 5. Zero accepts SMSs from no cellphones, any other value (1 to 5) will accept SMSs from that user's Cell Number, AND all those user numbers preceding it in the list.

Sub-location 3	PIN Error Reporting Code
-----------------------	---------------------------------

This is the code to be sent when there is a PIN code error

Sub-location 4	GSM Modem Error Reporting Code
-----------------------	---------------------------------------

This is the code to be sent when there is a problem with the GSM Modem – and it will be sent via dial-up, DTMF, or simplex radio, if installed.

Sub-location 5	Low Airtime Threshold
-----------------------	------------------------------

If the low airtime trouble condition is enabled (option 16 of location 40), when the airtime balance drops below this value the trouble condition will occur. The module checks the airtime every time it dials out or sends an SMS. This is only applicable to pay as you go SIM cards.

Sub-location 6	Cellphones to Report to
-----------------------	--------------------------------

0 reports to no cellphones - any other value (1 to 5) will allow enable reporting to be sent to that user's Cell Number, AND all those user numbers preceding it in the list.

IE: - "1" would just report to the first user, and "3", for example, would cause reports to be sent to the first three user cell numbers.

12. Partition Setup

LOCATIONS 128 – 135	Partition Setup
----------------------------	------------------------

Location No	Partition	Location No	Partition
128	Partition 1	132	Partition 5
129	Partition 2	133	Partition 6
130	Partition 3	134	Partition 7
131	Partition 4	135	Partition 8

Sub-location 1	Partition Zone Allocation
-----------------------	----------------------------------

This location is bitmapped with each LED representing a zone.

Lit LED'S represent the zones in the selected partition. Enter the number of the zone followed by the [*] key to select or deselect zones. By default, all zones are allocated to partition 1 and no zones are allocated to partition 2.

Sub-location 2	Primary Account Code
-----------------------	-----------------------------

This account code is used if single reporting has been enabled. If dual reporting is enabled then this account code is reported to telephone number 1.

Sub-location 3	Secondary Account Code
-----------------------	-------------------------------

This account code is only used when dual reporting is enabled. It is reported to Telephone Number 2

Sub-location 4	Partition Arm Options
-----------------------	------------------------------

LED	On / Off	ACTION
1	ON	Enable Instant Alarm
	OFF	Disable Instant Alarm
2	ON	Enable Instant Key -switch Arm
	OFF	Disable Instant Key-switch Arm
3	ON	Enable Quick Arm Key
	OFF	Disable Quick Arm Key
4	ON	Enable Quick Stay Arm Key
	OFF	Disable Quick Stay Arm Key
5	ON	Enable Auto Stay Arm if No Exit Zone is Triggered
	OFF	Panel Away Arms regardless of Zone Triggered
6	ON	Enable Auto Stay Arm if No Exit Zone is Triggered when arming with a key-switch (or remote)
	OFF	Disable Auto Stay Arm if No Exit Zone is Triggered when arming with a key-switch (or remote)
7	ON	Enable Forced Arm
	OFF	Disable Forced Arm
8	ON	Enable Zone Bypassing
	OFF	Disable Zone Bypassing
9	ON	Enable Arm with Zones in the Entry Route Violated
	OFF	Disable Arm with Zones in the Entry Route Violated
10	ON	Enable Siren Toot on Arm
	OFF	Disable Siren Toot on Arm
11	ON	Enable Siren Toot on Disarm
	OFF	Disable Siren Toot on Disarm
12	ON	Enable the Entry Beep
	OFF	Disable the Entry Beep
13	ON	Enable the Exit Beep
	OFF	Disable the Exit Beep
14	ON	Enable Engineer's Reset
	OFF	Disable Engineer's Reset
15	ON	Enable Auto Disarm
	OFF	Disable Auto Disarm

Default values are shaded

Quick Arm:

This option allows the user to arm the panel by holding down the **[1]** key for two seconds until the keypad beeps.

Force Arm:

With this option enabled, the panel will arm with violated zones e.g. an open window. When the panel arms, any violated zone is bypassed. If bypassed zones restore during the arm cycle (a window is closed, for example), the zone is automatically re-activated (un-bypassed).

Siren Toot on Away Arm / Disarm:

This option allows the user an audible confirmation that arming or disarming of the panel has occurred. The siren can be programmed to give a short beep after successful arming, and two short beeps after disarming. This is useful when used in conjunction remote or key-switch arming/disarming.

Engineer Reset:

If enabled this option prevents arming the panel after an alarm condition has occurred. The panel can only be armed after the engineer has entered a valid installer code. A trouble condition will be displayed on the keypad if enabled in location 40.

Sub-location 5	Partition Options
-----------------------	--------------------------

LED	ON / OFF	Action
1	ON	Enable Automatic Re-enabling of Shutdown Zones at the Time of the Dialler test.
	OFF	Disable Automatic Re-enabling of Shutdown Zones at the Time of the Dialler test.
2	ON	Enable Bypassing of Common Zones
	OFF	Disable Bypassing of Common Zones
3	ON	Enable Delay Before Communications
	OFF	Disable Delay Before Communications
4	ON	Enable Keypad Lockout
	OFF	Disable Keypad Lockout
5	ON	Enable User Phone Access
	OFF	Disable User Phone Access
6	ON	Enable Silent Keypad Panic
	OFF	Disable Silent Keypad Panics

Sub-location 6	Exit Delay Period
-----------------------	--------------------------

Value	Time-out Delay	Value	Time-out Delay
0	3 Seconds	8	2 Minutes
1	10 Seconds	9	3 Minutes
2	15 Seconds	10	4 Minutes
3	20 Seconds	11	5 Minutes
4	25 Seconds	12	10 Minutes
5	30 Seconds (default)	13	15 Minutes
6	45 Seconds	14	18 Minutes
7	1 Minute	15	21 Minutes

The exit delay will begin after the entry of a valid user code (or pressing of the **[1]** or **[6]**, initiating the quick-arm function). During this period, it is permissible to violate entry/exit and follower zones without causing an alarm condition thus allowing exit from the premises.

Select the appropriate exit delay period from the table above. If an instant zone is violated during this period, an alarm condition will immediately be registered. Select the appropriate value for the primary exit delay from the table.

Sub-location 7	Primary Entry Delay Time
-----------------------	---------------------------------

(Values identical to Sub-location 6) This entry delay begins after the violation of a primary entry/exit zone. During this period, it is permissible to violate follower zones without causing an alarm condition provided that an entry/exit zone was violated first.

If a follower zone is violated without a prior entry/exit zone violation, it will be treated as an instant zone. If an instant zone is violated during this period, an alarm condition will immediately be registered. Select the appropriate value for the primary entry delay from the same table for sub-location 6.

Sub-location 8	Secondary Entry Delay
-----------------------	------------------------------

(Values identical to Sub-location 6) The secondary entry delay applies to secondary entry/exit zones. Once an entry has been initiated, subsequent violations of any entry zone will NOT reset the entry time. Use the same table from Sub-location 6 to look up the value for the time interval required.

Sub-location 9	Auto Arm Time (Default = disabled)
-----------------------	---

This sub-location stores the time at which a particular partition will auto arm. The data format entered into this location is “hhmm” based on a 24 hour clock. Example: To auto arm at 11:35pm, enter 2335. All four digits must be entered, include any leading zeros (0100 for 1 am).

To disable this feature, ensure that no day of the week is selected in Sub-location 10.

Sub-location 10	Auto Arm Days (Default = all OFF)
------------------------	--

This Bitmapped sub-location sets the days on which the partition will auto arm at the time programmed in sub-location 9.

LED's	Days of the Week
LED 1	Monday
LED 2	Tuesday
LED 3	Wednesday
LED 4	Thursday
LED 5	Friday
LED 6	Saturday
LED 7	Sunday
All OFF	(Auto Arm Disabled)

Sub- location 11	Auto Disarm Time
-------------------------	-------------------------

This sub-location stores the time that the partition will auto disarm. The format of data entered into this location is “hhmm” based on a 24 hour clock. For example: To auto-disarm at 11:35 am, enter 1135.

Sub-location 12	Auto Disarm Days
------------------------	-------------------------

This Bitmapped sub-location sets the days on which the partition will auto-disarm at the time programmed in sub-location 11.

LED's	Days of the Week
LED 1	Monday
LED 2	Tuesday
LED 3	Wednesday
LED 4	Thursday
LED 5	Friday
LED 6	Saturday
LED 7	Sunday
All OFF	(Auto Arm Disabled)

NOTE:

Auto Disarm, if required, must be enabled per partition.
See sub-location 4.

Sub-location 13	Auto Arm Delay
------------------------	-----------------------

This location selects the delay period for the keypad buzzer warning that is initiated before the panel auto arms. At the completion of the Auto Arm Delay, the panel will arm. A valid user code entered during the delay period will cancel the auto arming.

Value	Delay
0	3 seconds
1	10 seconds
2	15 seconds
3	20 seconds
4	25 seconds
5	30 seconds
6	45 seconds
7	1 minute

Value	Delay
8 (Default)	2 minutes
9	3 minutes
10	4 minutes
11	5 minutes
12	10 minutes
13	15 minutes
14	18 minutes
15	21 minutes

Sub-location 14	Keypads to Display this Partition's Zones
------------------------	--

Zone LED	Keypad ID
1	Keypad 1
2	Keypad 2
3	Keypad 3
4	Keypad 4
5	Keypad 5
6	Keypad 6
7	Keypad 7
8	Keypad 8

Zone LED	Keypad ID
9	Keypad 9
10	Keypad 10
11	Keypad 11
12	Keypad 12
13	Keypad 13
14	Keypad 14
15	Keypad 15
16	Keypad 16

Sub-location 15	Keypads to Access the Partition
------------------------	--

Use the same table above to select the keypads that will have access to the current partition.

Partition Reporting Codes (for 4 x 2 & Domestic)

For all these locations, a two digit hexadecimal code must be programmed. To disable a reporting code a double zero (00) must be entered into the corresponding location. Note that if one of the above mentioned reporting digits is inadvertently omitted or programmed as a zero, the code will not be reported. The exception to this rule is when using domestic reporting where only the first digit is used.

Sub-location 16	Duress Reporting Code
------------------------	------------------------------

This code is reported when a duress code is entered.

Sub-location 17	Keypad Panic Reporting Code
------------------------	------------------------------------

This code is reported when the **[P]** key on a keypad is held down for two seconds.

Sub-location 18	Keypad Fire Reporting Code
------------------------	-----------------------------------

This code is reported when the **[F]** key on the keypad is held down for two seconds.

Sub-location 19	Keypad Medical Reporting Code
------------------------	--------------------------------------

This code is reported when the **[M]** key on the keypad is held down for two seconds.

Sub-location 20	Keypad Lockout Reporting Code
------------------------	--------------------------------------

This code is reported when a keypad lockout condition occurs.

Sub-locations 21 – 44	Partition Programmable Outputs
------------------------------	---------------------------------------

See “System Programmable Outputs” for details on programming the programmable outputs. The table below summarises the partition specific events that can be assigned to the outputs.

Summary of Partition Event Driven Programmable Outputs

Sub-Loc	Event	Output	Default Action
21	Close Programmable Output	3	Set High [0]
22	Stay Close Programmable Output	Disabled	
23	Open Programmable Output	3	Set Low [1]
24	Cancel Programmable Output	Disabled	
25	Alarm Restoral Programmable Output	Disabled	
26	Bypass Programmable Output	Disabled	
27	Forced Arm Programmable Output	Disabled	
28	Zone Tamper Programmable Output	Disabled	
29	Zone Tamper Restoral Programmable Output	Disabled	
30	Zone Shutdown Programmable Output	Disabled	
31	Zone Shutdown Restoral Programmable Output	Disabled	
32	Keypad Panic Programmable Output	1	Pulse High [2]
33	Keypad Fire Programmable Output	Disabled	
34	Keypad Medical Programmable Output	Disabled	
35	Keypad Lockout Programmable Output	Disabled	
36	Duress Programmable Output	1	Pulse High [2]
37	Verifies Alarm Programmable Output	Disabled	
38	Burglary Programmable Output	2	Pulse High [2]
39	Panic Programmable Output	1	Pulse High [2]
40	Fire Programmable Output	Disabled	
41	Tamper Zone Programmable Output	Disabled	
42	Siren Programmable Output	Disabled	
43	Strobe Programmable Output	Disabled	
44	Chime Programmable Output	Disabled	

Sub-location 45	Clear Programmable Outputs On Disarming
------------------------	--

This bitmapped sub-location allows any programmable output to be cleared (set low) on disarming.

The output/s to be cleared will be displayed by lit zone LED's representing the output i.e. zone 1 = output 1 etc. To toggle the status of the output, press the **[NUMBER OF OUTPUT] [*]** if the LED was off it will now come on and visa versa.

(To exit this mode press [#])

LED	Output
1	Panel - Programmable Output 1
2	Panel - Programmable Output 2
3	Panel - Programmable Output 3
4	Panel - Programmable Output 4
5	Panel - Programmable Output 5
6	Panel - Programmable Output 6
7	Panel - Programmable Output 7
8	Panel - Programmable Output 8
9	Wired Zone Expander 2 - Programmable Output 2
10	Wired Zone Expander 2 - Programmable Output 1
11	Wired Zone Expander 1 - Programmable Output 2
12	Wired Zone Expander 1 - Programmable Output 1

13.	User Options
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LOCATIONS 136 – 385	Individual User Code Setup
----------------------------	-----------------------------------

The IDS 1632 panels provide for 250 user codes. These locations allow the installer to configure the user code properties.

Table 12 : User Codes

Loc Number	User Number	Loc Number	User Number
136	User 1	261	User 126
137	User 2	262	User 127
138	User 3	263	User 128
139	User 4	264	User 129
140	User 5	265	User 130
141	User 6	266	User 131
142	User 7	267	User 132
143	User 8	268	User 133
144	User 9	269	User 134
145	User 10	270	User 135
146	User 11	271	User 136
147	User 12	272	User 137
148	User 13	273	User 138
149	User 14	274	User 139
150	User 15	275	User 140
151	User 16	276	User 141
152	User 17	277	User 142

153	User 18
154	User 19
155	User 20
156	User 21
157	User 22
158	User 23
159	User 24
160	User 25
161	User 26
162	User 27
163	User 28
164	User 29
165	User 30
166	User 31
167	User 32
168	User 33
169	User 34
170	User 35
171	User 36
172	User 37
173	User 38
174	User 39
175	User 40
176	User 41
177	User 42
178	User 43
179	User 44
180	User 45
181	User 46
182	User 47
183	User 48
184	User 49
185	User 50
186	User 51
187	User 52
188	User 53
189	User 54
190	User 55
191	User 56
192	User 57
193	User 58
194	User 59
195	User 60
196	User 61
197	User 62
198	User 63
199	User 64
200	User 65
201	User 66
202	User 67
203	User 68

278	User 143
279	User 144
280	User 145
281	User 146
282	User 147
283	User 148
284	User 149
285	User 150
286	User 151
287	User 152
288	User 153
289	User 154
290	User 155
291	User 156
292	User 157
293	User 158
294	User 159
295	User 160
296	User 161
297	User 162
298	User 163
299	User 164
300	User 165
301	User 166
302	User 167
303	User 168
304	User 169
305	User 170
306	User 171
307	User 172
308	User 173
309	User 174
310	User 175
311	User 176
312	User 177
313	User 178
314	User 179
315	User 180
316	User 181
317	User 182
318	User 183
319	User 184
320	User 185
321	User 186
322	User 187
323	User 188
324	User 189
325	User 190
326	User 191
327	User 192
328	User 193

204	User 69
205	User 70
206	User 71
207	User 72
208	User 73
209	User 74
210	User 75
211	User 76
212	User 77
213	User 78
214	User 79
215	User 80
216	User 81
217	User 82
218	User 83
219	User 84
220	User 85
221	User 86
222	User 87
223	User 88
224	User 89
225	User 90
226	User 91
227	User 92
228	User 93
229	User 94
230	User 95
231	User 96
232	User 97
233	User 98
234	User 99
235	User 100
236	User 101
237	User 102
238	User 103
239	User 104
240	User 105
241	User 106
242	User 107
243	User 108
244	User 109
245	User 110
246	User 111
247	User 112
248	User 113
249	User 114
250	User 115
251	User 116
252	User 117
253	User 118
254	User 119

329	User 194
330	User 195
331	User 196
332	User 197
333	User 198
334	User 199
335	User 200
336	User 201
337	User 202
338	User 203
339	User 204
340	User 205
341	User 206
342	User 207
343	User 208
344	User 209
345	User 210
346	User 211
347	User 212
348	User 213
349	User 214
350	User 215
351	User 216
352	User 217
353	User 218
354	User 219
355	User 220
356	User 221
357	User 222
358	User 223
359	User 224
360	User 225
361	User 226
362	User 227
363	User 228
364	User 229
365	User 230
366	User 231
367	User 232
368	User 233
369	User 234
370	User 235
371	User 236
372	User 237
373	User 238
374	User 239
375	User 240
376	User 241
377	User 242
378	User 243
379	User 244

255	User 120
256	User 121
257	User 122
258	User 123
259	User 124
260	User 125

380	User 245
381	User 246
382	User 247
383	User 248
384	User 249
385	User 250

When the panel is defaulted, User Code 1 defaults to 1234 and is a Master User Code. All other User Codes are erased.

Sub-location 1	Assigned to Partitions
-----------------------	-------------------------------

This bitmapped sub-location determines which partition a user code is assigned to. By default, User Code 1 is assigned to all Partitions. All other User Codes are assigned to Partition 1 only.

LED	Partition	LED	Partition
LED 1	Partition 1	LED 5	Partition 5
LED 2	Partition 2	LED 6	Partition 6
LED 3	Partition 3	LED 7	Partition 7
LED 4	Partition 4	LED 8	Partition 8

Sub-location 2	User Code Properties
-----------------------	-----------------------------

This is a bitmapped sub-location.

LED	User Option
1	Master user
2	Duress code
3	Arm to disarm code (maid's code)
4	Group Arm
5	Group Disarm
6	Arm Code
7	Disarm Code
8	Report User Open Close
9	User Phone-in Access
10	Report User Access
11	Enable Anti Pass Back for user
12	Fire Code

NOTE:

A master user code allows for the programming of other user codes in User Programming Mode.

User Reporting Codes (for 4x 2 and Domestic Reporting)

For all these locations, a two digit hexadecimal code must be programmed. To disable a reporting code a double zero (00) must be entered into the corresponding location. Note that if one of the above mentioned reporting digits is inadvertently omitted or programmed as a zero, the code will not be reported. The exception to this rule is when using domestic reporting where only the first digit is used.

Sub-location 3	Close Reporting Code
-----------------------	-----------------------------

This code is reported when the panel is AWAY ARMED.

Sub-location 4	Stay Close Reporting Code
-----------------------	----------------------------------

This code is reported when the panel is STAY ARMED.

Sub-location 5	Open Reporting Code
-----------------------	----------------------------

This code is reported when the panel is disarmed.

Sub-location 6	Siren Cancel Reporting Code
-----------------------	------------------------------------

If the siren is sounding and the siren is cancelled using a valid user code, a cancel code will be reported. Cancelling a silent alarm or silent panic will not cause the cancel siren code to be reported.

14. Programmable Output Options

LOCATIONS 388 – 399	Programmable Output Timing Setup
----------------------------	---

Locations 388 to 399 allow the installer to setup the timing characteristics of each programmable output individually.

Location	Output No.	Output Type
388	1	Panel Prog. Output 1
389	2	Panel Prog. Output 2
390	3	Panel Prog. Output 3
391	4	Panel Prog. Output 4
392	5	Panel Prog. Output 5
393	6	Panel Prog. Output 6
394	7	Panel Prog. Output 7
395	8	Panel Prog. Output 8
396	9	Zone Expander 2, Prog Output 2
397	10	Zone Expander 2, Prog Output 1
398	11	Zone Expander 1, Prog Output 2
399	12	Zone Expander 1, Prog Output 1

Sub-location 1	Output Pulse Time
-----------------------	--------------------------

This sub-location determines the length of time for which an output will pulse.

Value	Delay
0 (Default)	3 seconds
1	10 seconds
2	15 seconds
3	20 seconds
4	25 seconds
5	30 seconds
6	45 seconds
7	1 minute

Value	Delay
8	2 minutes
9	3 minutes
10	4 minutes
11	5 minutes
12	10 minutes
13	15 minutes
14	18 minutes
15	21 minutes

Output Scheduling

Outputs can be scheduled to set and reset at specified times on specific days of the week. To disable scheduling of an output ensure that all "days" are deselected.

Sub-location 2	Schedule ON Time
-----------------------	-------------------------

Enter the time using "hhmm" format at which the output is to be SET.
(MUST be four digits)

Sub-location 3	Schedule ON Days
-----------------------	-------------------------

This bitmapped sub-location determines on which day(s) an output will be set.

LED	Days of the Week
1	Monday
2	Tuesday
3	Wednesday
4	Thursday
5	Friday
6	Saturday
7	Sunday

Sub-location 4	Schedule OFF Time
-----------------------	--------------------------

Enter the time using "hhmm" format at which the output is to be RESET. All four digits must be entered, include any leading zeros (0100 for 1 am, for example).

Sub-location 5	Schedule OFF Days
-----------------------	--------------------------

This bitmapped sub-location determines on which day(s) an output will be scheduled to RESET.

LED	Days of the Week
1	Monday
2	Tuesday
3	Wednesday
4	Thursday
5	Friday
6	Saturday
7	Sunday

15.**Keypad Options****LOCATIONS 400 – 415 Individual Keypad Setup**

These locations allow the installer to setup the individual keypad properties.

Location	Keypad ID
400	Keypad 1
401	Keypad 2
402	Keypad 3
403	Keypad 4
404	Keypad 5
405	Keypad 6
406	Keypad 7
407	Keypad 8

Location	Keypad ID
408	Keypad 9
409	Keypad 10
410	Keypad 11
411	Keypad 12
412	Keypad 13
413	Keypad 14
414	Keypad 15
415	Keypad 16

Sub-location 1	Keypad Partition (Default = Partition 1)
-----------------------	---

Sub-location 2	Keypad Options
-----------------------	-----------------------

(Change partitions by entering **[MODE] [*] [Partition Number] [*]**, in USER MODE)

LED	ON / OFF	Action
1	ON	The Keypad will timeout back to its default partition after it has been used to view another partition
	OFF	The keypad will not timeout and will continue to show current partition information
2	ON	Keypad sleep mode enabled
	OFF	Keypad sleep mode disabled
3	ON	Enable Keypad Zone
	OFF	Disable Keypad Zone
4	ON	RESERVED
	OFF	RESERVED
5	ON	Keypad is an ARMING Keypad
	OFF	RESERVED
6	ON	RESERVED
	OFF	RESERVED
7	ON	Page two Zones Status (Zones 17 to 32 displayed)
	OFF	Page one Zones Status (Zones 1 to 16 displayed)

Keypad zones are mapped according to Keypad ID:

Keypad Zone	Zone Number	Keypad Zone	Zone Number
Keypad ID 1	Zone 32	Keypad ID 9	Zone 24
Keypad ID 2	Zone 31	Keypad ID 10	Zone 23
Keypad ID 3	Zone 30	Keypad ID 11	Zone 22
Keypad ID 4	Zone 29	Keypad ID 12	Zone 21
Keypad ID 5	Zone 28	Keypad ID 13	Zone 20
Keypad ID 6	Zone 27	Keypad ID 14	Zone 19
Keypad ID 7	Zone 26	Keypad ID 15	Zone 18
Keypad ID 8	Zone 25	Keypad ID 16	Zone 17

16. Installer Options

LOCATION 444	Reset Switch Disable (Default = 0)
---------------------	---

Value	Action
10	Disable Reset Switch
Any other value	Enable Reset Switch

For the detailed operation of this switch, refer to Section 12: Hardware Reset Switch.

LOCATION 445	Installers Code (Default = 9999)
---------------------	---

Enter the installer code into this location.

LOCATION 446	View Keypad ID
---------------------	-----------------------

View the data in this location to ascertain the Keypad ID.

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Warranty

Inhep Electronics Holdings (Pty) Ltd guarantees all IDS Control Panels against defective parts and workmanship for 24 months from date of purchase. Inhep Electronics Holdings shall, at its option, repair or replace the defective equipment upon the return of such equipment to any Inhep Electronics Holdings branch. This warranty applies ONLY to defects in components and workmanship and NOT to damage due to causes beyond the control of Inhep Electronics Holdings, such as incorrect voltage, lightning damage, mechanical shock, water damage, fire damage, or damage arising out of abuse and improper application of the equipment.

NOTE: Wherever possible, return only the PCB to Inhep Electronics Holdings service Centres.
DO NOT return the metal enclosure.

The **IDS 1632** is a product of **IDS (Inhep Digital Security)**
and is manufactured by
Inhep Electronics Holdings (Pty) Ltd

WARNING

For safety reasons, only connect equipment with a telecommunications compliance label. This includes customer equipment previously labelled permitted or certified.

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