IDS 400

Installer Manual

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

iDS

INHEP DIGITAL SECURITY

IDS400

Installer Guide to Wiring and Keypad Programming

Summary of Operation

Arm/disarm	**[#] + [USER CODE]**
Quick Away Arm	Hold down **[1]** for 1 second
Quick Stay Arm	Hold down **[5]** for 1 second
Quick Stay Arm & Go	Hold down **[6]** for 1 second
Force pick-up by panel	**[8]** System must be disarmed
Panic	Hold down [**P**] for 1 second
Fire	Hold down **[F]** for 1 second
Medical Emergency	Hold down **[M]** for 1 second
Alarm Memory	Hold down **[0]** for 1 second
Bypass a zone	**[∗] + [ZONE NUMBER]**
Program chime zone	Hold down **[2]** + [∗] **+ [ZONE NUMBER]**
Program stay zone	Hold down **[3]** + [∗] **+ [ZONE NUMBER]**
Duress	**[#] + [DURESS CODE]**
For Programming Guide - See page 13	

Contents

Figures

Tables

1.   Introduction to the IDS400

The IDS400 is a versatile, state of the art, microprocessor based, four zone alarm panel. Most features are optional and may be programmed either directly through the keypad or via the telephone system, using the IDS download software and appropriate modem. There are four programmable burglary zones, appropriate siren and auxiliary power outputs and 2 outputs which may be programmed to perform various trigger/switching functions.

For correct operation the IDS400 must be used in conjunction with the specified transformer/battery combination and appropriate peripheral sensors and signalling devices.

1.1 Features

- ❖ Four wire keypad operation - up to a maximum of 3 keypads.
- ❖ Four, fully programmable, end-of-line supervised zones, and 1 dedicated panic zone per keypad which is not end-of-line supervised.
- ❖ Fully programmable digital telephone communicator which supports most industry standard formats.
- ❖ Two programmable trigger outputs.
- ❖ Non volatile EEPROM memory retains all program and event log data in the event of a total power failure.
- ❖ Programmable loop response time for all zones (global).
- ❖ Up and downloadable using IDS windows based software.
- ❖ Excellent protection against lightning (provided by specialised "zap tracking" and transient suppressors).
- ❖ Event log date and time stamped.
- ❖ Fax defeat allows download access to the panel with other devices connected to the phone line.
- ❖ Programmable silent or audible panic.

2.   Installation and Wiring

Please refer to Figure 1: Connection Diagram and familiarise yourself with the following sections.

Figure 1: Connection Diagram
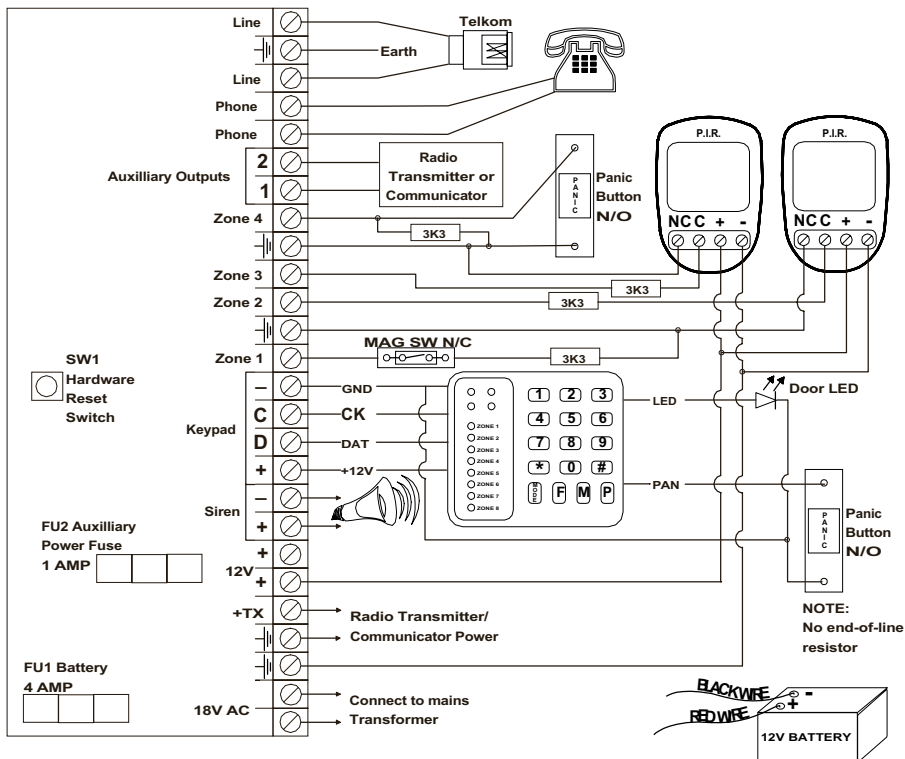
- ❖ All zones are end-of-line supervised. Any unused zones must also be terminated with the appropriate resistor.
- ❖ The end of line resistor should be placed inside or as close to the sensor as possible.

3.   Connecting the Telephone Communicator

Refer to Figure 1.
- ❖ The integral communicator has built in lightning protection to protect it from lightning induced transients. For optimum

protection connect a low impedance earth to the communicator. A poor earth will be ineffective and may result in damage to the communicator and alarm panel.

❖   Always connect the telephone communicator in the line seizure mode. Never in parallel with the telephone.

❖   If a radio transmitter or voice message communicator is being used for monitoring purposes the power for these devices should be taken from the "+TX" terminal.
NOTE:
The TX+ terminal is protected by means of the battery fuse. If excessive current (2 amps max) is drawn from this terminal, battery power to the alarm may be lost.

4.   Programmable Outputs

A relay board must be used when any device requiring a high current is connected to a programmable output. The current sink and source capability is the same for outputs 1 and 2. The output circuitry consists of a 12 volt source with a 56Ω series resistor. Current sink is via a 1000Ω resistor to negative. The represented output circuit is provided in Figure 2 below.

Figure 2: Programmable Output Configuration
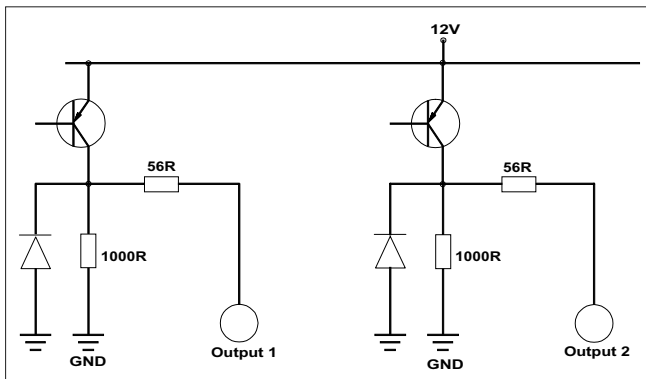
5.   The Key-Switch or Remote Control Unit

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

❖   If a key-switch or remote control unit is used, a 3K3 resistor must be connected between the zone input and ground.

❖   Use a normally open, *spring-loaded momentary* key-switch or a *non-latching* remote control unit. The remote receiver must provide a pulsed output.

❖   If using a key-switch, program the zone as an Arm/Disarm zone.

❖   If using a remote control, program the zone as either a Panic zone or an Arm/Disarm zone, as required.

❖   The panel will arm instantly (no entry/exit delay) when arming by means of a key-switch or remote control unit.

6.   Additional Technical Data

❖   Use a suitable transformer with an output voltage of 15 volts AC ±10% with a 16VA minimum rating. A 32 VA transformer is preferable for larger installations.

❖   Use a 12v sealed lead acid battery, min. 3ah. The back up period after mains failure will depend on the number of keypads, sensors and peripheral devices attached to the system. The current drawn by the panel and keypad (no indicators illuminated) excluding sensors is 240mA.

❖   The panic zone provided on the keypad is not an end-of-line supervised zone and requires a normally open panic switch. If using this panic zone connect a normally open panic switch between the PAN terminal and the GND terminal. If this zone is not used leave the terminal open circuit.

❖ A door LED may be connected to the keypad. This LED will mimic the ARM LED on the keypad i.e. When the system is not armed the LED will be extinguished. If the system is armed the LED will be illuminated and will flash if an alarm condition was registered while the system was armed. Note that the anode of the LED connects to the LED terminal on the keypad and the cathode of the LED is connected to the GND terminal. No series resistor is required.

❖ Do not connect more than 8 PIR's and two keypads, (or 6 PIR's and 3 keypads) to the axillary 12 volt outputs.

❖ The siren output requires a self driven 12 volt siren. The siren minus terminal is connected to the ground. The positive terminal of the siren is connected to 12 volts via a relay during the siren period.

❖ A full description of each programmable function of the panel is contained in the section headed Program Location Summary.

❖ All information regarding the programming of user codes, home zones and chime zones is contained in the User Manual.

7. Hardware Reset Switch and Timer Reset

In the event that the installer code is lost, it is possible to reset the panel to its factory default values using the hardware reset switch labelled SW1 on the main PC board. Provided that the reset switch has not been disabled (see location 13 - page 20) the panel may be defaulted by removing both battery and AC power from the panel, and then reapplying the power (AC/battery) while depressing the switch. Factory default values will be restored to all locations.

NOTE:
Once the reset switch has been disabled it is *not possible* to default the panel using the reset switch. The panel may *only* be defaulted if a valid installer code is used and a value of **[0]** is entered into location 0.
'

7.1 Auto-test Delay

An additional function of the hardware reset switch is the resetting of the auto-test delay clock. This delay is set for 24 hours and the first auto-test takes place 24 hours after application of power to the panel. Depressing the switch while the panel is powered will reset the auto-test delay clock to 23:59:50 i.e. 10 seconds before an auto-test takes place (the auto-test is programmed to take place once the clock reaches 00:00:00). This allows the auto-test to be reset to an hour that is suitable to the User.

8. Event Log

The IDS400 automatically keeps an internal log of all events which may be communicated through the onboard communicator. Once the event log is "full" the oldest event will be overwritten by the most recent event. An event is logged regardless of whether or not the panel is programmed to communicate the event.

The event log can only be retrieved by means of the Windows based download/upload software and appropriate modem.

The time of each event is not logged in absolute terms i.e. time of day and date but relative to the previous event. The date and time indicated on an uploaded event log is calculated by the PC using the PC clock time. Since the time at which the upload event was initiated is known, all other times can be calculated relative to this event.

The IDS400 does not contain an onboard battery to maintain the clock time in the event of a total power failure and the back up battery completely discharged, therefore in the event of a total power failure it will not be possible to calculate the absolute time at which an event took place. The relative time of each event will still be indicated.

9   Programming Instructions

9.1 Introduction

The panel may be programmed either using the keypad or using the up/download software. Programming the panel by means of the keypad is explained in the following sections of this manual. For information on programming the panel using the up/download software refer to the manual pertaining to the software.

NOTE:
Before commencing the programming it is advisable to *read the Installer Manual thoroughly*

9.2 Location Values

All values within a program location are displayed by the zone indicators in binary format. The table below indicates how these values may be read.

Table 1: Value represented by each zone indicator

Zone 1	1
Zone 2	2
Zone 3	4
Zone 4	8

To read a binary value on the keypad add the values represented by each illuminated LED. The total value is the number being represented e.g.. Assume the following zone indicators are illuminated: Zone 1, Zone 3 and Zone 4.

The value would be as shown in the table overleaf.

Zone 1	1
Zone 3	4
Zone 4	8
Total	13

Table 2: Binary Representation

Value	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Zone 1 (2^0=1)	●	✳	●	✳	●	✳	●	✳	●	✳	●	✳	●	✳	●	✳
Zone 2 (2^1=2)	●	●	✳	✳	●	●	✳	✳	●	●	✳	✳	●	●	✳	✳
Zone 3 (2^2=4)	●	●	●	●	✳	✳	✳	✳	●	●	●	●	✳	✳	✳	✳
Zone 4 (2^3=8)	●	●	●	●	●	●	●	●	✳	✳	✳	✳	✳	✳	✳	✳

●   Extinguished

✳   Illuminated

9.3 Programming the Panel

❖ For all programming procedures, the **[✳]** (star) key functions as the enter key and the **[#]** (hash) key functions as a clear key to clear incorrect or unintended entries, as a back space and to exit the programming mode.

❖ If an error has been made i.e. an attempt is made to enter an illegal value or an incorrect series of keystrokes, the keypad will beep three times to indicate the error. The panel will automatically discard the invalid entry allowing the correct entry to be made without manually clearing the incorrect entry.

Procedure

1. Ensure that the panel is not armed.
2. Press the **[#]** key (this will clear any previous or accidental entries) followed by the 4 digit **[INSTALLER CODE]** (the default code is 9999).

3. If the correct code has been entered the green READY indicator will begin flashing.
4. Press the **[∗]** key.
5. Enter the **[LOCATION NUMBER]** of the program location that you wish to change.
6. Press the **[∗]** key.
7. The zone LED's will now display the content of the selected program location in binary format (ref. Table 2).
8. If you wish to change the content of the location, enter the **[NEW VALUE]** followed by the **[∗]** key. If you do not wish to change the location value, press the **[#]** key.
9. If the location value has been changed, the buzzer will give a long beep indicating that a valid entry has been stored.
10. Repeat steps 5-8 until all necessary locations have been programmed.
11. To exit from the programming mode press the **[#]** key.

The READY indicator will stop flashing to indicate that the program mode has been exited.

9.4 Program Location Summary

Following is a detailed description of the functioning of each location and its options.

LOCATION 0	Defaulting of panel or master user code

Value	Action
0 Default	Resets all locations to the factory default values as shown in the DEFAULT column in the programming list. All user codes will also be defaulted and the master user code will become
1	Will default the master user code to 1234 without defaulting the remainder of the user codes. All other information will remain un-altered.

LOCATION 1-2	Reserved

LOCATION 3	Zone Loop Response

Value	Response Time	Value	Response Time
0	100ms (Default)	8	96ms
1	12ms	9	108ms
2	24ms	10	120ms
3	36ms	11	132ms
4	48ms	12	144ms
5	60ms	13	156ms
6	72ms	14	168ms
7	84ms	15	180ms

LOCATION 4-7	Zone Characteristics (Zones 1- 4)

Program locations 4 to 7 define the zone characteristics of each of the four zones. Each zone can be programmed to function in one of seven modes. Table 3 below (and continued overleaf) provides a description of the different zone types that may be programmed into these locations i.e. a value of 3 programmed into location 5 would cause zone 2 to be an audible priority zone.

Table 3: Programmable Zone Types

Value	Zone Type
0 Default	DISABLED The Zone will be disabled
1	ENTRY/EXIT Violation of an Entry/exit zone is ignored during the exit delay period of the arming procedure. Violating an entry/exit zone when armed initiates the entry delay. The entry delay programmed into location 12 and the exit delay programmed into location 11 will be used. Failure to exit through and entry/exit zone after arming will enable the stay mode. If a valid pin code is not entered before the entry delay period expires, an alarm

Value	Zone Type
2	FOLLOWER A violation of a follower zone will be 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 first.
3	AUDIBLE PRIORITY Regardless of whether the panel is armed or not, a violation of an Audible Priority zone will cause the control panel to register an alarm condition a*nd* sound
4	AUDIBLE INSTANT If the panel armed, the violation of an instant zone will cause the control panel to immediately register an alarm condition. The behaviour of the siren will depend upon the value programmed into location 9. While the panel is unarmed, a violation of an instant zone is ignored.
5	ARM/DISARM A violation of an Arm/Disarm zone will cause the panel to arm or disarm. To use this facility connect a momentary key-switch or non-latching remote control unit to this zone. The end-of-line resistor will still be
6	SILENT PRIORITY Regardless of whether the panel is armed or not, violation of a silent priority zone will cause the appropriate code programmed into the relevant program locations to be reported to the control station.
7	SILENT INSTANT If the panel is armed, the violation of a silent instant will cause the control panel to immediately register an alarm condition. The siren will not sound. While the panel is unarmed, the violation of a silent instant zone is ignored.

LOCATION 8	Arming Options

Value	Quick Arm	Stay Mode	Entry/Exit Delay
0 Default	●	●	●
1	✓	●	●
2	●	✓	●
3	✓	✓	●
4	●	●	✓
5	✓	●	✓
6	●	✓	✓
7	✓	✓	✓

✓   Enable

●   **Disable**

Quick Arm

The quick arm option allows the user to arm the panel by holding down the **[1]** key for 1 second until the keypad beeps. Using the quick arm key initiates an arming cycle as if a valid user code has been entered. User code 1 will be reported if the quick arm key is used for arming.

Stay Mode

The stay mode allows the user to arm the panel with certain preprogrammed zones ("stay" zones) automatically bypassed. The **[5]** key will arm the panel in stay mode with no exit delay.

Entry/Exit Delay

The Entry delay is initiated once an entry/exit zone is violated and allows the user time to disarm the system. 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, the alarm condition will immediately be registered. (See location 12)

The Exit delay is the period of time allowed for exiting before the panel arms. The exit delay begins after entry of a valid user code. During this period is it possible to violate entry/exit, and follower zones without causing an alarm condition. (See location 11).

LOCATION 9	Siren and Audible Keypad Panic Options

Value	Siren Toot	Audible Keypad Panic
0 Default	●	●
1	✓	●
2	●	✓
3	✓	✓

✓   Enable

●   **Disable**

Siren Beep on Arm & Disarm (Siren Toot)
This option allows the user to confirm that arming has occurred. The siren will give a long beep after successful arming, and a short beep after disarming. It is recommended that the option be enabled if a remote control or external key-switch is installed.

NOTE:
The siren will not beep if the panel is stay armed or disarmed from the stay mode.

Audible Keypad Panic
If this feature is enabled, the siren will sound when a keypad panic is activated. If disabled, a keypad panic would not cause the siren to sound, but a signal would still be sent to the monitoring company.

LOCATION 10 — Siren Time Out Period

Value	Time-out Delay	Value	Time-out Delay
0	0.25 sec.	8	4 min.
1	10 sec. (Default)	9	5 min.
2	20 sec.	10	10 min.
3	30 sec.	11	15 min.
4	45 sec.	12	18 min.
5	1 min.	13	21 min.
6	2 min.	14	24 min.
7	3 min.	15	27 min.

Siren time out is the period of time for which the siren will sound after an alarm condition is registered.

LOCATION 11 — Exit Delay Period

Value	Time-out Delay	Value	Time-out Delay
0	0.25 sec.	8	4 min.
1	10 sec. (Default)	9	5 min.
2	20 sec.	10	10 min.
3	30 sec.	11	15 min.
4	45 sec.	12	18 min.
5	1 min.	13	21 min.
6	2 min.	14	24 min.
7	3 min.	15	27 min.

The Exit delay is the period of time allowed for exiting before the panel arms. The exit delay begins after entry of a valid user code. During this period is it possible to violate entry/exit, and follower zones without causing an alarm condition. (See location 8).

LOCATION 12	Entry Delay Period

Value	Time-out Delay		Value	Time-out Delay
0	0.25 sec.		8	4 min.
1	10 sec.		9	5 min.
2	20 sec.		10	10 min.
3	30 sec.		11	15 min.
4	45 sec.		12	18 min.
5	1 min.		13	21 min.
6	2 min.		14	24 min.
7	3 min.		15	27 min.

The Entry delay is the period of time allowed to enter and disarm the panel before an alarm condition is registered; it begins after the violation of an 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, the alarm condition will immediately be registered. (See location 8).

LOCATION 13	Reset Switch Enable/Disable

Value	Action
0 Default	Enable
10	Disable

For the correct operation of this switch refer to Section 7 Hardware Reset Switch.

WARNING:
Make certain that the new installer code has been correctly entered *before* disabling the reset button.

LOCATION 14-15	Reserved

LOCATION 16-27	**Programmable Outputs**

Value	Condition of OP
0	Disabled (Default)
1	Pulse OP 1
2	Pulse OP 2
3	Set OP 1 High

Value	Condition of OP
4	Set OP 2 High
5	Pull OP 1 Low
6	Pull OP 2 Low

Table 4: Description of Locations

Location	Description
16	Panic Programmable Output
17	Duress Programmable Output
18	Alarm Programmable Output
19	Open Programmable Output
20	Close Programmable Output
21	Strobe Programmable Output
22	Fire Programmable Output
23	Medical Programmable Output
24	Auto-test Programmable Output
25	AC Fail Programmable Output
26	AC Restore Programmable Output
27	Low Battery Programmable Output

These locations control the function of the 2 programmable outputs.

If a smoke detector, strobe light (or any other device requiring power) is connected to a programmable output, a relay board must be used to provide the high current. Please refer to Section 4 Programmable Outputs.

Multiple events may be programmed to a single output. Any output may be programmed as follows:

❖   Pulsed - 2 second period

❖ Set high - Latched
❖ Set low - Latched

The locations 21 and 22 may only be programmed as a 0, 1 or 2 i.e. values 3 - 6 are not permissible.

LOCATION 28-31	Reserved

LOCATION 32	Dialing Options

Value	Tone Dial	Join Phone Numbers
0 Default	●	●
1	✓	●
2	●	✓
3	✓	✓

✓ Enable

● **Disable**

Dialling Option: Value 0
❖ Pulse dial primary and secondary phone numbers until there is a successful communication or for the number of attempts programmed into location 33.

Dialling Option: Value 1
❖ As for Value 0 but with tone dialling instead of pulse dialling.

Dialling Option: Value 2
❖ Both numbers would be pulse dialled as a single number. This allows for the creation of a phone number longer than 16 digits.
❖ All data will be communicated to this single number.

Dialling Option: Value 3
❖ As for Value 2 but with tone dialling instead of pulse dialling.

LOCATION 33	Dial Attempts

Determines the maximum number of attempts the panel will make to contact the base station. In the event the panel is unsuccessful at communicating with the first attempt, the telephone numbers as programmed into locations 40-55 and locations 56-71 will be dialled in the manner programmed into location 32. Only values between 0 and 15 are valid for this location.

LOCATION 34	Number of Rings before Pickup/ Fax Defeat

This location programs the number of rings before the panel picks up the telephone line and attempts to up/download. In the event that the panel picks up the phone and no valid download log on sequence is received by the panel, the call will be terminated by the panel after 20 seconds.

NOTE:
- ❖ Note that the value of 15 (maximum permissible value) enables the fax defeat mode. If fax defeat is enabled and the phone rings 15 times the panel will answer the call, if however the phone rings and the call is terminated within 3 rings the panel will within a 60 second window answer the next call on the first ring.

- ❖ Holding down the **[8]** key for 1 second forces the panel to pick up the line allowing up/downloading to commence immediately. Should the panel receive no valid download log on sequence within 20 seconds, the call will be terminated.

- ❖ *Fax defeat is a useful feature for downloading when a fax or answering machine is connected to the same phone line as the alarm panel. If enabled: dial the panel and hang up before 3 rings. Dial the panel again within 1 minute. The panel will pick up the call on the first ring thereby preventing the fax or answering machine from answering the call before the alarm panel.*

- ❖ A number lower than 15 programmed into this location disables the fax defeat mode and will set a fixed ring count.

LOCATION 35	Communication Format

Value	Format	Description
0 Default	Sescoa Superfast	1.8kHz TX, 2.3kHz HS
1	Ademco Express	Dual Tone HS, DTMF
2	Fbi 4 x 2 (No Parity)	1.8kHz TX, 2.3kHz HS, 20PPS
3	Fbi 4 x 2 (Parity)	1.8kHz TX, 2.3kHz HS, 40PPS
7	Domestic reporting	1.8kHz TX, Blind, 20PPS
12	Silent Knight 4 x 2	1.9kHz TX, 1.4kHz, 20PPS

TX   **Transmit**
HS   Handshake
PPS Pulses per Second

The value entered into location 35 selects the format to be used for communication to the base station receiver or other device. Select from the above, values appropriate to the required format. During communication the green LED on the communicator will illuminate.

NOTES ON DOMESTIC REPORTING:
The data to be reported will be transmitted 2 times immediately after the phone number is dialled. The format provides for a simple form of easily identifiable remote alarm which may be reported to an office, mobile phone etc.

LOCATIONS 36-39	Communicator Account Code

The four digit account code for the telephone communicator is programmed into these locations. The panel is identified at the receiver by this account number.

❖   The account code *must* be four digits long. Any account number shorter than four digits *must* be preceded with "10"s.
❖   When programming locations 36-39 a "0" *must be entered* as a **[10]**.
❖   Sescoa Superfast format does not support codes higher than

3374.

❖ The account code is not "hexed" by the panel when Sescoa Superfast is used.

Numerical Value	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Hexadecimal Value	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F

EXAMPLE:

The desired account code is 14 (i.e. 0014)

❖ Enter **[10]** into location 36.
❖ Enter **[10]** into location 37.
❖ Enter **[1]** into location 38.
❖ Enter **[4]** into location 39.

LOCATIONS 40-55	**Primary Telephone Number**

Loc No.	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55

When programming locations 40-71 (telephone numbers) observe the following rules:

❖ To dial a **0** program a **[10]** into the location.
❖ To dial a ∗ program an **[11]** into the location.
❖ To dial a **#** program a **[12]** into the location.
❖ To create a 4 second pause in the phone number, program a **[15]** into the location.
❖ To end a telephone number, program a **[0]** (not a 10) into the location as a stop digit.

These locations contain the primary telephone number, which may be up to sixteen digits long. A four second delay can be programmed at any point by entering a value of **[15]** into the appropriate location.

EXAMPLE:

A phone number consisting of an area code 031, a 4 second pause and a phone number of 705 1373.

Locatio-n	Value Programmed	
40	10	(1st digit of area code)
41	3	(2nd digit of area code)
42	1	(3rd digit of area code)
43	15	(4 second delay)
44	7	(1st digit of phone number)
45	10	(2nd digit of phone number)
46	5	(3rd digit of phone number)
47	1	(4th digit of phone number)
48	3	(5th digit of phone number
49	7	(6th digit of phone number)
50	3	(7th digit of phone number)
51	0	(Stop digit)

LOCATIONS 56-71	Secondary Telephone Number

Loc No.	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71

These locations contain the secondary telephone number that may be up to sixteen digits long. The same procedures apply as for the Primary Telephone Number.

Communicator Reporting Codes (Locations 72-88)

With the exception of Sescoa Superfast, all other communication formats are 4 x 2 reporting formats which means that a 4 digit account code will be reported with a 2 digit reporting code. It will be noted that some reporting functions require that both digits of the reporting code be programmed and other reporting codes only require a single digit to be programmed. Reporting codes with only one digit will have the second digit added automatically by the panel. An explanation is provided under each reporting code. It is however important to note that where ever space is provided for the programming of 2 reporting digits i.e. locations 80 and 81 for zone 1 reporting code, BOTH DIGITS MUST BE PROGRAMMED.

NOTE:

❖ To *disable* any of the reporting codes program a [0] into the locations for both digit 1 and digit 2.

❖ All reporting codes that require a "0" to be reported must be programmed as a **[10]** i.e. an "A" will be reported in the place of the "0".

Numerical Value	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Hexadecimal Value	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F

LOCATIONS 72-73	Duress reporting code

This code will be reported if the panel is disarmed using the duress code (User 15 is the duress code - see Section 8.4 - User Manual).

LOCATIONS 74-75	Keypad Panic reporting code

This code is reported when a panic condition is initiated by pressing the panic **[P]** button for 2 seconds.

LOCATIONS 76-77	Keypad Fire reporting code

This code is reported when a fire condition is initiated by pressing the fire **[F]** button until the siren sounds (approximately 2 seconds).

LOCATIONS 78-79	Keypad Medical reporting code

This code is reported when a medical condition is initiated by pressing the medical **[M]** button until the keypad audible indicator sounds (approximately 2 seconds).

LOCATIONS 80-87	Zone reporting codes

Locatio-n	Reporting code
80 - 81	Zone 1
82 - 83	Zone 2
84 - 85	Zone 3
86 - 87	Zone 4

LOCATION 88	Open reporting code

The open code will be reported when the system is disarmed.
NOTE:
The digit programmed into this location is the first digit of the reporting code. The second digit will automatically be added and will be the number which corresponds to the user code used to disarm the system (see Users Manual).

EXAMPLE:
If an open code of **[B]** (11) is programmed and the master user code is used to disarm the system, the 2 digit reporting code would be "B1" indicating an open by user 1.

NOTE:
If the system is disarmed by means of a key-switch or remote control unit using an arm/disarm zone the system will report open by user 2.

LOCATION 89	Reserved

LOCATION 90	Close reporting code

The close code will be reported when the system is armed in the away mode indicated by illuminated ARMED and AWAY LED's on the keypad. As for the open reporting code this is a single digit code with a second digit added from the relevant user code.

LOCATION 91	Reserved

LOCATION 92-93	AC Fail reporting code

The AC fail code will only be reported if the AC power is lost for a period longer than 12 minutes.

LOCATION 94-95	AC Restore reporting code

The AC restoral code will be reported once the AC power has been restored after an AC failure period of more than 12 minutes.

LOCATION 96-97	Low Battery reporting code

The low battery condition will be reported if the battery voltage drops below 10 volts.

LOCATION 98-99	Auto-test reporting code

This code is the test reporting code and will be reported at 24 hour intervals. Reporting of this code is recommended as it provides verification that the control panel is functioning properly.

LOCATIONS 100-103	Reserved

LOCATION 104-107	Installers ID Code (Default: 9999)

The installers ID code is used by the installer to enter the program mode. This may be changed by entering a new 4 digit code into these 4 locations.

Although not possible from the keypad, it is possible using the IDS download software to enter an installers ID code containing the hexadecimal digits A-F. If these digits are used as part of the installers

ID it will prevent access to programming mode from the keypad. In this case program access can only be achieved by using the IDS download software. This can be used to disable the keypad programming mode.

Index

A

B

C

D

E

LOC	Description	New Value	Default	Def.Data
0	Reset to Factory Deault		0 to Reset	
1	Reserved			
2	Reserved			
3	Zone Loop Response		100ms	0
4	Zone 1 Type		Disabled	0
5	Zone 2 Type		Disabled	0
6	Zone 3 Type		Disabled	0
7	Zone 4 Type		Disabled	0
8	Arming Options		Disabled	0
9	Siren Options		Disabled	0
10	Siren Time Out		0.25 seconds	0
11	Exit Delay		0.25 seconds	0
12	Primary Entry Delay		0.25 seconds	0
13	Reset Switch Enable		Enabled	0
14	Reserved			
15	Reserved			
16	Panic Prog O/P		Disabled	0
17	Duress Prog O/P		Disabled	0
18	Alarm Prog O/P		Disabled	0
19	Open Prog O/P		Disabled	0
20	Close Prog O/P		Disabled	0
21	Strobe Prog O/P		Disabled	0
22	Fire Prog O/P		Disabled	0
23	Medical Prog O/P		Disabled	0
24	Auto-test Prog O/P		Disabled	0
25	AC Fail Prog O/P		Disabled	0
26	AC Restore Prog O/P		Disabled	0
27	Low Battery Prog O/P		Disabled	0
28	Reserved			
29	Reserved			
30	Reserved			
31	Reserved			
32	Dialing Options		Disabled	0
33	Number of Dial Attempts		Disabled	0

LOC	Description	New Value	Default	Def.Data
34	No. of Rings Before Pickup		Disabled	0
35	Communicator Format		Sescoa Superfast	0
36	Account Code Digit 1		Disabled	0
37	Account Code Digit 2		Disabled	0
38	Account Code Digit 3		Disabled	0
39	Account Code Digit 4		Disabled	0
40	Phone No. 1 Digit 1		Disabled	0
41	Phone No. 1 Digit 2		Disabled	0
42	Phone No. 1 Digit 3		Disabled	0
43	Phone No. 1 Digit 4		Disabled	0
44	Phone No. 1 Digit 5		Disabled	0
45	Phone No. 1 Digit 6		Disabled	0
46	Phone No. 1 Digit 7		Disabled	0
47	Phone No. 1 Digit 8		Disabled	0
48	Phone No. 1 Digit 9		Disabled	0
49	Phone No. 1 Digit 10		Disabled	0
50	Phone No. 1 Digit 11		Disabled	0
51	Phone No. 1 Digit 12		Disabled	0
52	Phone No. 1 Digit 13		Disabled	0
53	Phone No. 1 Digit 14		Disabled	0
54	Phone No. 1 Digit 15		Disabled	0
55	Phone No. 1 Digit 16		Disabled	0
56	Phone No. 2 Digit 1		Disabled	0
57	Phone No. 2 Digit 2		Disabled	0
58	Phone No. 2 Digit 3		Disabled	0
59	Phone No. 2 Digit 4		Disabled	0
60	Phone No. 2 Digit 5		Disabled	0
61	Phone No. 2 Digit 6		Disabled	0
62	Phone No. 2 Digit 7		Disabled	0
63	Phone No. 2 Digit 8		Disabled	0
64	Phone No. 2 Digit 9		Disabled	0
65	Phone No. 2 Digit 10		Disabled	0
66	Phone No. 2 Digit 11		Disabled	0
67	Phone No. 2 Digit 12		Disabled	0

LOC	Description	New Value	Default	Def.Data
68	Phone No. 2 Digit 13		Disabled	0
69	Phone No. 2 Digit 14		Disabled	0
70	Phone No. 2 Digit 15		Disabled	0
71	Phone No. 2 Digit 16		Disabled	0
72	Duress Reporting Code Digit 1		Disabled	0
73	Duress Reporting Code Digit 2		Disabled	0
74	Keypad Panic Reporting Code Digit 1		Disabled	0
75	Keypad Panic Reporting Code Digit 2		Disabled	0
76	Keypad Fire Reporting Code Digit 1		Disabled	0
77	Keypad Fire Reporting Code Digit 2		Disabled	0
78	Keypad Medical Reporting Code Digit 1		Disabled	0
79	Keypad Medical Reporting Code Digit 2		Disabled	0
80	Zone 1 Alarm Reporting Code Digit 1		Disabled	0
81	Zone 1 Alarm Reporting Code Digit 2		Disabled	0
82	Zone 2 Alarm Reporting Code Digit 1		Disabled	0
83	Zone 2 Alarm Reporting Code Digit 2		Disabled	0
84	Zone 3 Alarm Reporting Code Digit 1		Disabled	0
85	Zone 3 Alarm Reporting Code Digit 2		Disabled	0
86	Zone 4 Alarm Reporting Code Digit 1		Disabled	0
87	Zone 4 Alarm Reporting Code Digit 2		Disabled	0
88	Open Reporting Code		Disabled	0
89	Reserved			
90	Close Reporting Code		Disabled	0
91	Reserved			
92	AC Fail Reporting Code Digit 1		Disabled	0
93	AC Fail Reporting Code Digit 2		Disabled	0
94	AC Restore Reporting Code Digit 1		Disabled	0
95	AC Restore Reporting Code Digit 2		Disabled	0
96	Low Battery Reporting Code Digit 1		Disabled	0
97	Low Battery Reporting Code Digit 2		Disabled	0
98	Auto-test reporting Code Digit 1		Disabled	0
99	Auto-test Reporting Code Digit 2		Disabled	0
100	Reserved			
101	Reserved			

LOC	Description	New Value	Default	Def.Data
102	Reserved			
103	Reserved			
104	Installers Code Digit 1			9
105	Installers Code Digit 2			9
106	Installers Code Digit 3			9
107	Installers Code Digit 4			9

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 400** 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.

iDS
INHEP DIGITAL SECURITY