
IT-235

RS-422

Interface Module

Installation Manual v3.0

Warning: *This manual contains information on limitations regarding product use and function and information on the limitations as to liability of the manufacturer.*

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WARNING Please Read Carefully

Note to Installers - This Warning contains vital information. As the only individual in contact with system users, it is the installer's responsibility to bring each item in this Warning to the attention of all users of this system.

System Failures

This system has been carefully designed to be as effective as possible. There are circumstances, however, involving fire, burglary, or other types of emergencies where it may not provide protection. Any alarm system of any type may be compromised deliberately or may fail to operate as expected for a variety of reasons. Some but not all of these reasons may be:

Access by Intruders

Intruders may enter through an unprotected access point, circumvent a sensing device, evade detection by moving through an area of insufficient coverage, disconnect a warning device, or interfere with or prevent the proper operation of the system.

Component Failure

Although every effort has been made to make this system as reliable as possible, the system may fail to function as intended due to the failure of a component.

Compromise of Radio Frequency (Wireless) Devices

Signals may not reach the receiver under all circumstances which could include metal objects placed on or near the radio path or deliberate jamming or other inadvertent radio signal interference.

Criminal Knowledge

This system contains security features which were known to be effective at the time of manufacture. It is possible for persons with criminal intent to develop techniques which reduce the effectiveness of these features. It is important that your security system be reviewed periodically to ensure that its features remain effective and that it is updated or replaced if it is found that it does not provide the protection expected.

Failure of Replaceable Batteries

This system's wireless transmitters have been designed to provide several years of battery life under normal conditions. The expected battery life is a function of the device environment, usage, and type. Ambient conditions such as high humidity, high or low temperatures, or large temperature fluctuations may reduce the expected battery life. While each transmitting device has a low battery monitor which identifies when the batteries need to be replaced, this monitor may fail to operate as expected. Regular testing and maintenance will keep the system in good operating condition.

Inadequate Installation

A security system must be installed properly in order to provide adequate protection. Every installation should be evaluated by a security professional to ensure that all access points and areas are covered. Locks and latches on windows and doors must be secure and operate as intended. Windows, doors, walls, ceilings and other building materials must be of sufficient strength and construction to provide the level of protection expected. A reevaluation must be done during and after any construction activity. An evaluation by the fire and/or police department is highly recommended if this service is available.

Inadequate Testing

Most problems that would prevent an alarm system from operating as intended can be found by regular testing and maintenance. The complete system should be tested weekly and immediately after a break-in, an attempted break-in, a fire, a storm, an earthquake, an accident, or any kind of construction activity inside or outside the premises. The testing should include all sensing devices, keypads, consoles, alarm indicating devices, and any other operational devices that are part of the system.

Insufficient Time

There may be circumstances when the system will operate as intended, yet the occupants will not be protected from an emergency due to their inability to respond to the warnings in a timely manner. If the system is remotely monitored, the response may not occur in time to protect the occupants or their belongings.

Motion Detectors

Motion detectors can only detect motion within the designated areas as shown in their respective installation instructions. They

cannot discriminate between intruders and intended occupants. Motion detectors do not provide volumetric area protection. They have multiple beams of detection and motion can only be detected in unobstructed areas covered by these beams. They cannot detect motion which occurs behind walls, ceilings, floor, closed doors, glass partitions, glass doors or windows. Any type of tampering whether intentional or unintentional such as masking, painting, or spraying of any material on the lenses, mirrors, windows or any other part of the detection system will impair its proper operation. Passive infrared motion detectors operate by sensing changes in temperature. However their effectiveness can be reduced when the ambient temperature rises near or above body temperature or if there are intentional or unintentional sources of heat in or near the detection area. Some of these heat sources could be heaters, radiators, stoves, barbeques, fireplaces, sunlight, steam vents, lighting, and so on.

Power Failure

Control units, intrusion detectors, smoke detectors and many other security devices require an adequate power supply for proper operation. If a device operates from batteries, it is possible for the batteries to fail. Even if the batteries have not failed, they must be charged, in good condition and installed correctly. If a device operates only by AC power, any interruption, however brief, will render that device inoperative while it does not have power. Power interruptions of any length are often accompanied by voltage fluctuations which may damage electronic equipment such as a security system. After a power interruption has occurred, immediately conduct a complete system test to ensure that the system operates as intended.

Security and Insurance

Regardless of its capabilities, an alarm system is not a substitute for property or life insurance. An alarm system also is not a substitute for property owners, renters, or other occupants to act prudently to prevent or minimize the harmful effects of an emergency situation.

Smoke Detectors

Smoke detectors that are a part of this system may not properly alert occupants of a fire for a number of reasons, some of which follow. The smoke detectors may have been improperly installed or positioned. Smoke may not be able to reach the smoke detectors, such as when the fire is in a chimney, walls or roofs, or on the other side of closed doors. Smoke detectors may not detect smoke from fires on another level of the residence or building. Every fire is different in the amount of smoke produced and the rate of burning. Smoke detectors cannot sense all types of fires equally well. Smoke detectors may not provide timely warning of fires caused by carelessness or safety hazards such as smoking in bed, violent explosions, escaping gas, improper storage of flammable materials, overloaded electrical circuits, children playing with matches or arson.

Even if the smoke detector operates as intended, there may be circumstances when there is insufficient warning to allow all occupants to escape in time to avoid injury or death.

Telephone Lines

If telephone lines are used to transmit alarms, they may be out of service or busy for certain periods of time. Also an intruder may cut the telephone line or defeat its operation by more sophisticated means which may be difficult to detect.

Warning Devices

Warning devices such as sirens, bells, horns, or strobes may not warn people or waken someone sleeping if there is an intervening wall or door. If warning devices are located on a different level of the residence or premise, then it is less likely that the occupants will be alerted or awakened. Audible warning devices may be interfered with by other noise sources such as stereos, radios, televisions, air conditioners or other appliances, or passing traffic. Audible warning devices, however loud, may not be heard by a hearing-impaired person.

GENERAL

IMPORTANT

This manual shall be used with the Impassa Alarm Controller Panel manual; all safety instructions specified within that manual (or equivalent) shall be observed. The Impassa Panel is referenced as “panel” throughout this document. The **IT-235** Interface shall be installed in the location specified in these instructions. The equipment enclosure must be fully assembled and closed, with all the necessary screws/tabs, and secured to a wall before operation. Internal wiring must be routed in a manner that prevents:

- Excessive strain on wire and on terminal connections,
- Interference between power limited and non power limited wiring,
- Loosening of terminal; connections, or
- Damage of conductor insulation.

WARNING: NEVER INSTALL THIS EQUIPMENT DURING A LIGHTNING STORM!

Safety Information

External wiring must be protected and routed in a such a way that all the local, state, federal electrical code and regulations and fire codes are fully met; the external wiring shall pose no risks for an operator. The external wiring shall be clearly labeled at both ends. Where required, notify the local authorities in regard to the performed wiring.

The Installer must instruct the System user on each of the following:

- Do not attempt to service this product. Opening or removing covers may expose the user to dangerous voltages or other risks.
- Any servicing shall be referred to trained service personnel only.
- Use authorized accessories only with this equipment.

Model Information

IT-235: Is an RS-422 interface that allows two way message transfer between the DSC Impassa Panel and the ASG1000 interactive hub. The **IT-235** provides monitoring and control via an RS-422 balanced line link to the Hub. The link speed is 115.2 KB and is programmable by the installer.

NOTE: ASG1000 Interactive Hub is an interface device which connects to security panels, IP cameras, sensors, Z-wave based home automation devices, etc. to deliver a host of advanced functionality. Life-style events are defined as “non alarm” events. Life-safety events are defined as “alarm” events.

Features

- Programmable Labels.
- RS-422 balanced line communication to the ASG1000 Hub up to 1,000 ft. (305 m).
- Buffers 1,000 date and time stamped Life Style events to Hub as First In First Out (FIFO) messages.

Technical Specifications

Ratings

Table 1: IT-235 Interface Module Ratings

Model	IT-235 Interface Module
POWER SUPPLY RATINGS	
Input Voltage	11.1~12.6 VDC
CURRENT CONSUMPTION	
Standby Current	140mA @ 12 VDC
ENVIRONMENTAL SPECIFICATIONS	
Operating Temperature	0°C - 49°C (32°F- 120°F)
Humidity	5% ~ 93% relative humidity, non-condensing
MECHANICAL SPECIFICATIONS	
Board Dimensions (mm)	150 × 50 × 15
Weight (grams)	45

Compatibility

Table 2: Compatible Impassa Panels

Interface	Panel	Description
IT-235	Impassa Series	• Impassa SCW9055 v1.16+ • Impassa SCW9057 v1.16+

NOTE: Enter [*][8][Installer Code][900] at keypad to view the Impassa Panel Version number.

IT-235 INTERFACE PRE INSTALLATION CONFIGURATION

This IT-235 interface is fixed and shall be installed in the Panel by Service Persons only. (Service Person is defined as a person having the appropriate technical training and experience necessary to be aware of hazards to which that person may be exposed in performing a task and can also take measures to minimize the risks to that person or other persons). The IT-235 shall be installed and used within an environment that provides the pollution degree max 2, over voltages category II, in non-hazardous, indoor locations only. This manual shall be used with the Installation Manual of the panel which is connected to the IT-235. All instructions specified within the panel manual and the Hub manual must be observed.

All the local rules imposed by local electrical codes shall be observed and respected during installation.

Running the RS-422 Cable

An RS-422 cable must be connected to the ASG1000 Hub and cable run to the IT-235 module inside the panel.

NOTE: Maximum cable length for RS-422 cable is 305 m (1,000 ft.)

At the ASG1000 Hub, attach wires for RS-422 connection as follows:

1. Securely fasten the **TX+** wire on the terminal block.
2. Securely fasten the **TX-** wire on the terminal block.
3. Securely fasten the **RX+** wire on the terminal block.
4. Securely fasten the **RX-** wire on the terminal block.
5. Securely fasten the **GND** wire on the terminal block. (Optional, DSC recommends connection.)
6. Run the RS-422 Cable from the Hub to the IT-235 mounted inside the Panel.

Table 3: RS-422 Connector Pin Assignment

PIN	1	2	3	4	5
Signal Name	TX +	TX -	RX +	RX -	GND

Hardware Factory Default

The IT-235 can be hardware reset to Factory Default by removing AC power, Battery + terminal, and telephone line, then installing a jumper between the **BLK** and **DEF** pins on the IT-235 Keybus connector (left terminal block) and restarting the IT-235. (See **Figure 1**.)

NOTE: Installing the Default (DEF) jumper during normal operation has no effect.

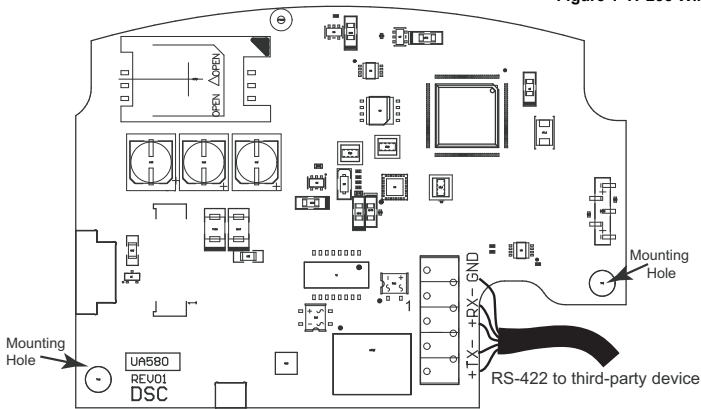
WIRING AND MOUNTING

WARNING! Before installing the IT-235 board within the alarm controller enclosure, disconnect the power and telephone lines from the panel. The IT-235 Interface output circuits are power limited. Do not route any wiring over the circuit board. Maintain at least 25.4mm (1in.) separation between circuit board and wiring. A minimum of 7mm (1/4 in.) separation must be maintained at all points between non-power limited wiring and power limited wiring.

RS-422 Connection for ASG1000 Hub

1. Terminate the previously run RS-422 cable from the Hub to the IT-235 **TB2** as follows: See **Figure 1**.
 - a. Connect the **TX+** wire to the **RX+** terminal on the IT-235.
 - b. Connect the **TX-** wire to the **RX-** terminal on the IT-235.
 - c. Connect the **RX+** wire to the **TX+** terminal on the IT-235.
 - d. Connect the **RX-** wire to the **TX-** terminal on the IT-235.
 - e. Connect the ground wire to the **GND** terminal on the IT-235 (Optional - DSC recommends connection).
2. Perform the following steps for initial power on of the panel with IT-235 installed:
 - a. Reconnect the AC power, Battery + connector, and Telephone line to the Panel (the IT-235 and Panel will power up together).
 - b. Observe that the IT-235's **Network** and **Trouble** LEDs are flashing together while the interface initializes. Both LEDs will continue to flash until the IT-235 has successfully initialized and is ready for operation.

Figure 1 IT-235 Wiring Diagram



INTERFACE STATUS LEDs

The Interface has 2 yellow LED indicators: 1 **Trouble** LED, 1 **Network** connection status LED. LED functionality is described in this section.

▲ Yellow Trouble LED

The yellow LED will flash to indicate a trouble on the unit. The number of flashes indicates the type of trouble. See the table below for the coded flashes and the conditions which will activate the Trouble Status LED.

Table 4: Yellow Trouble Status LED

Number of Flashes	Trouble
2	Panel Supervision Trouble
10	Configuration Failure
12	Module Configuration Trouble

NOTE: Only the highest priority trouble (2 Flashes is highest priority) is indicated. When that trouble is restored, the next highest trouble will indicate, if present. This will continue until all troubles have been cleared (Trouble LED is OFF).

The following paragraphs describe the conditions associated with the trouble indicated:

2 Flashes: Panel Supervision Trouble

This trouble is indicated when communication between the IT-235 module and the panel fails. If the module can not communicate with the panel (e.g., loss of power to the panel) the IT-235 will send a **Panel Absent Trouble** (Section [023]) event message to the Hub. When communication is restored, the IT-235 will send a **Panel Absent Restore** (Section [024]) event message to the Hub. The reporting codes are **ET0001** (Trouble) and **ER0001** (Trouble Restore). The Panel Absent/Restore events always use primary receiver Account Code (See Section [021]) when communicating these events.

NOTE: The Panel Absent Trouble/Restore are internally generated events by the IT-235. These are the only internal events created; all other events are generated by the Panel. The Trouble is generated if the IT-235 misses 6 consecutive polls to the panel and is restored on successful receipt of a single poll.

10 Flashes: Configuration Failure

This trouble is indicated when the unit fails to receive remote programming.

12 Flashes: Module Configuration Failure

This trouble is indicated when the System Account Code has not been programmed in Section [021].

● Yellow Connection Status LED

BLINKING: Indicates communication is in progress between IT-235 and the Hub.

- Once quickly for outgoing transmission from the IT-235.
- Twice quickly to indicate incoming ACK/NACK from the Hub.

OFF: This is the normal state of the Connection Status LED. There are no connection issues present.

ON: There is a problem with the connection. The yellow LED will be ON when trouble is indicated:

INITIAL PANEL PROGRAMMING

Keypad Data Display

- **Section-Toggle Options:** The number is displayed when Toggle is ON, the number is not displayed when Toggle is OFF. (e.g., Toggle Options displays: [--3--6--]. Options **3** and **6** are **ON**, all others are **OFF**. Pressing keys 1 through 8 will alternately turn the Toggle ON and OFF.
- **HEX/Decimal Data:** Values that are provided with two defaults, separated by a slash (/) character, use the format: hexadecimal followed by decimal equivalent (e.g., Default [0BF5/3061]). Hexadecimal numbers are shown, with all leading zeros, to the full field length defined for the number.

Entering HEX values at keypad

To enter HEX values at the keypad, you must press the [*] key before entering the HEX value. (e.g., to enter HEX value C at the keypad, press [*][3].

Entering ASCII Characters at keypad

1. Press [*] and use the scroll buttons [<|>] to display **ASCII Entry** on the keypad screen.
2. Press [*] to select ASCII entry mode.
3. Use the [<|>] scroll keys to display the character you want and press [*] to save and exit ASCII entry.
4. Repeat the steps above to enter another ASCII character.

Impassa Initial Programming

Perform the following steps to ensure that the IT-235 and the panel work together as intended.

These sections must be programmed at the panel keypad. Enter [*][8][Installer Code][Section Number]. Record any values that are modified from their default, in the appropriate Programming Worksheets for the panel.

1. In Panel Section [167] program 060 (seconds).
2. In Panel Section [382] set Option [5] ON.
3. In Panel Section [383] set Option [7] ON. (Interactive bidirectional, events and logs, firmware upgrade).
4. In Panel Section [383] set Option [8] ON for CID, or OFF for SIA.

IT-235 PROGRAMMING SECTION

The programming sections in this document are accessed via panel section for Ethernet/GPRS programming. Enter: [*][8][Installer Code][851][###], where ### is the 3-digit section number referenced in this programming section. The worksheet at the end of this document can be used to record new values when programming changes have been made from their default values. Default values are provided for each section.

NOTE: Programmed values can not be modified using the keypad. Installers may review/record programming option values at the keypad.

Programming Options

[011] Installer Code

Default (CAFE)

Program your installer code for this IT-235 module. The installer code is required whenever programming of the IT-235 module is required. Valid range: 0000 - FFFF.

[021] Account Code

Default (FFFFFF)

The Account Code is included when transmitting events generated by the IT-235. (e.g., Panel Absent Trouble). It is recommended that the IT-235 Account Code be the same as the Panel Account Number. Valid range: 000001-FFFFFFE. If 4 digit account codes are needed the 2 lowest digits shall be programmed as FF; (e.g., Account Code 1234 is programmed as:1234FF). Programming this section as all 0 or all F will cause a Module Configuration Trouble (Trouble LED = 12 flashes).

NOTE: 12 flashes are indicated on the IT-235 only. This status is NOT communicated to the panel.

[022] Communications Format

Default (04)

The module can be configured to send IT-235 Events in SIA or CID format. Program **03** for CID. Program **04** for SIA. The SIA communication format follows the level 2 specifications of the *SIA Digital Communication Standard - October 1997*. This format will send the Account Code programmed in Section [021] along with its data transmission. The transmission will look similar to the following at the receiver: **Nri0 ET001**

Where: N = New Event; **ri0** = Partition/Area identifier; **ET** = [023] Panel Absent Trouble; **001** = Zone 001.

IT-235 Communications Reporting Codes

Table 5: Communications Reporting Codes

Event	SIA Identifier	SIA Reporting Code	CID Qualifier	CID Event Code	CID Reporting Code	CID User/Zone
[023] Panel Absent Trouble	ET	001	1	3	55	001
[024] Panel Absent Trouble Restore	ER	001	3	3	55	001

[023] Panel Absent Trouble

Default (FF)

Program 00 to disable this event or FF to enable. This event will occur when communications with the panel have been lost for more than 60 seconds.

[024] Panel Absent Trouble Restore

Default (FF)

Program 00 to disable this event or FF to enable. This event will occur when communications with the control panel have resumed.

Interactive Programming Options

[651] Interactive Account Code

Default (FFFFFFFFFFFF)

This section is programmed with the interactive Account Code of the IT-235. Valid range for each field is 000000000000 - FFFFFFFFFFFF. The MAC address can be viewed in Section [998].

NOTE: The default of this section is FFFFFFFFFFFF, when it is programmed as 000000000000 or FFFFFFFFFFFF, the firmware will automatically use the MAC address as the account code when communicating to Hub.

[652] Interactive Access Code

Default (12345678)

This section is programmed with a hexadecimal interactive access code. Valid range is 00000000 - FFFFFFFF.

[661] Interactive Baud Rate

Default (05; 115200 Baud)

This section is programmed with the baud rate used. Valid entries are provided in the table below. Default baud rate is 115.2 KB.

Table 6: Interactive Baud Rate Settings

HEX Value	01	02	03	04	05
Baud Rate	9600	19200	38400	57600	115200

[662] Interactive Port Settings Toggle

Program these section toggles to select the parity used for interactive data transfers:

[1] Parity Enable

Default (OFF)

ON: Parity enabled.

OFF: Parity disabled.

[2] Parity Type

Default (OFF)

ON: Even Parity enabled.

OFF: Odd Parity enabled.

[3] Stop Bits

Default (OFF)

ON: 1 Stop bit is used.

OFF: 2 Stop bits are used.

[4] Flow Control

Default (OFF)

ON: Flow Control enabled.

OFF: Flow Control disabled.

[5]-[8]Reserved

[663] Interactive Toggle Option

[1] Interactive over serial toggle

Default (ON)

ON: Interactive over serial enabled.

OFF: Interactive over serial disabled.

[2]-[4] Not used

[5] Interactive Protocol Toggle

Default (ON)

ON: Interactive protocol enabled.

OFF: Interactive protocol disabled.

NOTE: Options [1] and [5] must be on for the interactive feature to work.

[671] Lifestyle Event Toggle

This section determines the events recorded in the **Lifestyle Log**. When the lifestyle log buffer is **75%** full, the IT-235 will connect to the server and upload the lifestyle information. The log can buffer 1,000, variable length, lifestyle events.

NOTE: No Failure To Communicate (FTC) error shall be generated for Lifestyle Events.

[1] Lifestyle Log Alarm/Restore

Default (ON)

[2] Lifestyle Log Tamper/Restore

Default (ON)

[3] Lifestyle Log Opening/Closing

Default (ON)

[4] Lifestyle Log System Maintenance

Default (ON)

[5] Lifestyle Log System Test

Default (ON)

[6] Lifestyle Log IT-235 Events

Default (ON)

[7]-[8] Reserved

Default (ON)

64 Zone Lifestyle Toggle Options

[672] Lifestyle Zone 1 - 8 Toggle Options

The default for each Lifestyle Zone Toggle is ON.

Table 7: Lifestyle Zone 1 - 8 Toggle

TOGGLE	01	02	03	04	05	06	07	08
ZONE	1	2	3	4	5	6	7	8

[673] Lifestyle Zone 9 - 16 Toggle Options

The default for each Lifestyle Zone Toggle is ON.

Table 8: Lifestyle Zone 9 - 16 Toggle

TOGGLE	01	02	03	04	05	06	07	08
ZONE	9	10	11	12	13	14	15	16

[674] Lifestyle Zone 17 - 24 Toggle Options

The default for each Lifestyle Zone Toggle is ON.

Table 9: Lifestyle Zone 17 - 24 Toggle

TOGGLE	01	02	03	04	05	06	07	08
ZONE	17	18	19	20	21	22	23	24

[675] Lifestyle Zone 25 - 32 Toggle Options

The default for each Lifestyle Zone Toggle is ON.

Table 10: Lifestyle Zone 25 - 32 Toggle

TOGGLE	01	02	03	04	05	06	07	08
ZONE	25	26	27	28	29	30	31	32

[676] Lifestyle Zone 33 - 40 Toggle Options

The default for each Lifestyle Zone Toggle is ON.

Table 11: Lifestyle Zone 33 - 40 Toggle

TOGGLE	01	02	03	04	05	06	07	08
ZONE	33	34	35	36	37	38	39	40

[677] Lifestyle Zone 41 - 48 Toggle Options

The default for each Lifestyle Zone Toggle is ON.

Table 12: Lifestyle Zone 41 - 48 Toggle

TOGGLE	01	02	03	04	05	06	07	08
ZONE	41	42	43	44	45	46	47	48

[678] Lifestyle Zone 49 - 56 Toggle Options

The default for each Lifestyle Zone Toggle is ON.

Table 13: Lifestyle Zone 49 - 56 Toggle

TOGGLE	01	02	03	04	05	06	07	08
ZONE	49	50	51	52	53	54	55	56

[679] Lifestyle Zone 57 - 64 Toggle Options

The default for each Lifestyle Zone Toggle is ON.

Table 14: Lifestyle Zone 57 - 64 Toggle

TOGGLE	01	02	03	04	05	06	07	08
ZONE	57	58	59	60	61	62	63	64

[681] Notification Event Toggle

This section determines the Notification events that are reported. Default for all toggles is ON.

[1] Lifestyle Log Alarm/Restore

Default (ON)

[2] Lifestyle Log Tamper/Restore

Default (ON)

[3] Lifestyle Log Opening/Closing

Default (ON)

[4] Lifestyle Log System Maintenance

Default (ON)

[5] Lifestyle Log System Test

Default (ON)

[6] Lifestyle Log IT-235 Events

Default (ON)

[7]-[8] Reserved

Default (ON)

64 Zone Notification Toggle Options

[682] Notification Zone 1 - 8 Toggle Options

The default for each Notification Zone Toggle is ON.

Table 15: Notification Zone 1 - 8 Toggle

TOGGLE	01	02	03	04	05	06	07	08
ZONE	1	2	3	4	5	6	7	8

[683] Notification Zone 9 - 16 Toggle Options

The default for each Notification Zone Toggle is ON.

Table 16: Notification Zone 9 - 16 Toggle

TOGGLE	01	02	03	04	05	06	07	08
ZONE	9	10	11	12	13	14	15	16

[684] Notification Zone 17 - 24 Toggle Options

The default for each Notification Zone Toggle is ON.

Table 17: Notification Zone 17 - 24 Toggle

TOGGLE	01	02	03	04	05	06	07	08
ZONE	17	18	19	20	21	22	23	24

[685] Notification Zone 25 - 32 Toggle Options

The default for each Notification Zone Toggle is ON.

Table 18: Notification Zone 25 - 32 Toggle

TOGGLE	01	02	03	04	05	06	07	08
ZONE	25	26	27	28	29	30	31	32

[686] Notification Zone 33 - 40 Toggle Options

The default for each Notification Zone Toggle is ON.

Table 19: Notification Zone 33 - 40 Toggle

TOGGLE	01	02	03	04	05	06	07	08
ZONE	33	34	35	36	37	38	39	40

[687] Notification Zone 41 - 48 Toggle Options

The default for each Notification Zone Toggle is ON.

Table 20: Notification Zone 41 - 48 Toggle

TOGGLE	01	02	03	04	05	06	07	08
ZONE	41	42	43	44	45	46	47	48

[688] Notification Zone 49 - 56 Toggle Options

The default for each Notification Zone Toggle is ON.

Table 21: Notification Zone 49 - 56 Toggle

TOGGLE	01	02	03	04	05	06	07	08
ZONE	49	50	51	52	53	54	55	56

[689] Notification Zone 57 - 64 Toggle Options

The default for each Notification Zone Toggle is ON.

Table 22: Notification Zone 57 - 64 Toggle

TOGGLE	01	02	03	04	05	06	07	08
ZONE	57	58	59	60	61	62	63	64

System Information (Read Only)

NOTE: Sections [987] - [991] are provided for information (Read Only). Values in these sections cannot be modified.

[987] Language Version

This section will display the current language version of the IT-235.

[990] Boot Loader Version

This section will display the current boot loader version of the IT-235.

[991] Firmware Version

This section will display the current firmware version of the device. Update worksheets with new version after a flash update is completed.

System Reset Defaults

[999] Software Default

Default (99)

Software default allows the installer to refresh the unit after changes and also return the IT-235 to default state.

00: Default Module. All programming sections in module reset to factory settings.

NOTE: This will erase all existing IT-235 programming.

55: Reset. The IT-235 is reset. This option is equivalent to power cycling the IT-235.

PROGRAMMING WORKSHEET

Programming Options

[011] Installer Code

Default (CAFE) Valid range: 0000 - FFFF.

[021] Account Code

Default (FFFFF)

Valid range: 000001 - FFFFFE.

[022] Communications Format

Default (04) Program 03 (CID), 04 (SIA).

[023] Panel Absent Trouble

Default (FF)

[024] Panel Absent Trouble Restore

Default (FF) Program 00 disable or FF enable.

Interactive Programming Options

[651] Interactive Account Code

Default (000000)

[652] Interactive Access Code

Default (12345678)

Default (05; 115200 Baud)

[662] Interactive Port Settings Toggle

[1] Parity Enabled Default (OFF).

[2] Even/Odd Parity Default (OFF).

[3] 1 or 2 Stop Bits Default (OFF).

[4] Flow Control. Default (OFF).

[663] Interactive Toggle Option

[1] Alarm/Restore Default (ON).

[2] Tamper/Restore Default (ON).

[3] Opening/Closing Default (ON).

[4] System Maintenance Default (ON).

[5] System Test Default (ON).

[6] Internal Events Default (ON).

64 Zone Lifestyle Toggle Options

[672] Lifestyle Zone 1 - 8 Toggle Options

1 2 3 4 5 6 7 8

[673] Lifestyle Zone 9 - 16 Toggle Options

9 10 11 12 13 14 15 16

[674] Lifestyle Zone 17 - 24 Toggle Options

17 18 19 20 21 22 23 24

[675] Lifestyle Zone 25 - 32 Toggle Options

25 26 27 28 29 30 31 32

[676] Lifestyle Zone 33 - 40 Toggle Options

33 34 35 36 37 38 39 40

[677] Lifestyle Zone 41 - 48 Toggle Options

41 42 43 44 45 46 47 48

[678] Lifestyle Zone 49 - 56 Toggle Options

49 50 51 52 53 54 55 56

[679] Lifestyle Zone 57 - 64 Toggle Options

57 58 59 60 61 62 63 64

[681] Notification Event Toggle

[1] Alarm/Restore Default (ON).

[2] Tamper/Restore Default (ON).

[3] Opening/Closing Default (ON).

[4] System Maintenance. Default (ON).

[5] System Test Default (ON).

[6] Internal Events Default (ON).

64 Zone Notification Toggle Options

[682] Notification Zone 1 - 8 Toggle Options

1 2 3 4 5 6 7 8

[683] Notification Zone 9 - 16 Toggle Options

9 10 11 12 13 14 15 16

[684] Notification Zone 17 - 24 Toggle Options

17 18 19 20 21 22 23 24

[685] Notification Zone 25 - 32 Toggle Options

25 26 27 28 29 30 31 32

[686] Notification Zone 33 - 40 Toggle Options

33 34 35 36 37 38 39 40

[687] Notification Zone 41 - 48 Toggle Options

41 42 43 44 45 46 47 48

[688] Notification Zone 49 - 56 Toggle Options

49 50 51 52 53 54 55 56

[689] Notification Zone 57 - 64 Toggle Options

57 58 59 60 61 62 63 64

System Information (Read Only)

[991] Firmware Version

System Reset Defaults

[999] Software Default

Default (99)

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Digital Security Controls warrants the original purchaser that for a period of twelve months from the date of purchase, the product shall be free of defects in materials and workmanship under normal use. During the warranty period, Digital Security Controls shall, at its option, repair or replace any defective product upon return of the product to its factory, at no charge for labour and materials. Any replacement and/or repaired parts are warranted for the remainder of the original warranty or ninety (90) days, whichever is longer. The original purchaser must promptly notify Digital Security Controls in writing that there is defect in material or workmanship, such written notice to be received in all events prior to expiration of the warranty period. There is absolutely no warranty on software and all software products are sold as a user license under the terms of the software license agreement included with the product. The Customer assumes all responsibility for the proper selection, installation, operation and maintenance of any products purchased from DSC. Custom products are only warranted to the extent that they do not function upon delivery. In such cases, DSC can replace or credit at its option.

International Warranty

The warranty for international customers is the same as for any customer within Canada and the United States, with the exception that Digital Security Controls shall not be responsible for any customs fees, taxes, or VAT that may be due.

Warranty Procedure

To obtain service under this warranty, please return the item(s) in question to the point of purchase. All authorized distributors and dealers have a warranty program. Anyone returning goods to Digital Security Controls must first obtain an authorization number. Digital Security Controls will not accept any shipment whatsoever for which prior authorization has not been obtained.

Conditions to Void Warranty

This warranty applies only to defects in parts and workmanship relating to normal use. It does not cover:

- damage incurred in shipping or handling;
- damage caused by disaster such as fire, flood, wind, earthquake or lightning;
- damage due to causes beyond the control of Digital Security Controls such as excessive voltage, mechanical shock or water damage;
- damage caused by unauthorized attachment, alterations, modifications or foreign objects;
- damage caused by peripherals (unless such peripherals were supplied by Digital Security Controls);
- defects caused by failure to provide a suitable installation environment for the products;
- damage caused by use of the products for purposes other than those for which it was designed;
- damage from improper maintenance;
- damage arising out of any other abuse, mishandling or improper application of the products.

Items Not Covered by Warranty

In addition to the items which void the Warranty, the following items shall not be covered by Warranty: (i) freight cost to the repair centre; (ii) products which are not identified with DSC's product label and lot number or serial number; (iii) products disassembled or repaired in such a manner as to adversely affect performance or prevent adequate inspection or testing to verify any warranty claim. Access cards or tags returned for replacement under warranty will be credited or replaced at DSC's option. Prod-

ucts not covered by this warranty, or otherwise out of warranty due to age, misuse, or damage shall be evaluated, and a repair estimate shall be provided. No repair work will be performed until a valid purchase order is received from the Customer and a Return Merchandise Authorization number (RMA) is issued by DSC's Customer Service.

Digital Security Controls' liability for failure to repair the product under this warranty after a reasonable number of attempts will be limited to a replacement of the product, as the exclusive remedy for breach of warranty. Under no circumstances shall Digital Security Controls be liable for any special, incidental, or consequential damages based upon breach of warranty, breach of contract, negligence, strict liability, or any other legal theory. Such damages include, but are not limited to, loss of profits, loss of the product or any associated equipment, cost of capital, cost of substitute or replacement equipment, facilities or services, down time, purchaser's time, the claims of third parties, including customers, and injury to property. The laws of some jurisdictions limit or do not allow the disclaimer of consequential damages. If the laws of such a jurisdiction apply to any claim by or against DSC, the limitations and disclaimers contained here shall be to the greatest extent permitted by law. Some states do not allow the exclusion or limitation of incidental or consequential damages, so that the above may not apply to you.

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Installer's Lockout

Any products returned to DSC which have the Installer's Lockout option enabled and exhibit no other problems will be subject to a service charge.

Out of Warranty Repairs

Digital Security Controls will at its option repair or replace out-of-warranty products which are returned to its factory according to the following conditions. Anyone returning goods to Digital Security Controls must first obtain an authorization number. Digital Security Controls will not accept any shipment whatsoever for which prior authorization has not been obtained.

Products which Digital Security Controls determines to be repairable will be repaired and returned. A set fee which Digital Security Controls has predetermined and which may be revised from time to time, will be charged for each unit repaired.

Products which Digital Security Controls determines not to be repairable will be replaced by the nearest equivalent product available at that time. The current market price of the replacement product will be charged for each replacement unit.

FCC Compliance Statement

CAUTION: Changes or modifications not expressly approved by the manufacturer could void your authority to use this equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

The user may find the following booklet prepared by the FCC useful: 'How to Identify and Resolve Radio/Television Interference Problems'. This booklet is available from the U.S. Government

Industry Canada Statement

This Class B digital apparatus complies with Canadian ICES-003.

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