# LE4020/LE4020CF V5.0

## LTE / 3G CELLULAR ALARM COMMUNICATOR

## **INSTALLATION GUIDE**



For the full installation manual, visit www.dsc.com

**Warning:** This manual contains information on limitations regarding product use and function and information on the limitations as to liability of the manufacturer. The entire manual should be carefully read.

## **Safety Information**

### IMPORTANT

The equipment is fixed, wall-mounted and shall be installed in the position specified in these instructions (see Figure 1: Parts). 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
- Loosening of terminal; connections
- Damage of conductor insulation

## WARNING: Never install this equipment during a lightning storm!

#### Instruct the end-user to:

- 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 persons only.
- Use authorized accessories only with this equipment.

Do not dispose of the battery in fire or water. Disposing of the battery in a fire will cause rupture and explosion.

Do not dispose of the waste battery as unsorted municipal waste. Consult your local regulations and /or laws regarding recycling with regard to this lead-acid battery. Doing so will help protect the environment. Some of the materials that are found within the battery could become toxic if not disposed of properly and may affect the environment.

This equipment, LE4020/LE4020CF, is fixed and shall be installed 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 of measures available to minimize the risks to that person or other persons). It 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 relevant alarm control panel. All instructions specified within that manual must be observed.

The performance of the LE4020/LE4020CF depends greatly on cellular network coverage. Therefore, it should not be mounted without first performing placement tests to determine the best location for reception (minimum of one green LED ON). Optional antenna kits – LTE-8ANT, LTE-15ANT, LTE-25ANT, LTE-50ANT (8ft/2.4m, 15ft/4.6m, 25ft/7.6m or 50ft/15.2m) – are available.

## Approvals Information

## NOTICE TO USERS, INSTALLERS, AUTHORITIES HAVING JURISDICTION AND OTHER INVOLVED PARTIES

This product incorporates field-programmable software. In order for the product to comply with the requirements in the Standard for Control Units and Accessories for Fire Alarm Systems, UL 864, certain programming features or options must be limited to the specific values or not used at all as indicated below.

Program Feature or Option	Permitted in UL 864 (Y/N?)	Possible Settings	Settings Permitted in UL 864
Supervision	Yes	5 minutes /60 minutes	5 minutes (see note below)
Inputs/Outputs	Yes	Fire/Burg signals	Fire related signals only
SMS Remote Control	No	Enable/Disable	Disable

**NOTE:** This product has been tested in accordance with UL 864 9th edition. According to this edition of the standard, the supervision window for reporting single-technology communicator trouble shall be set to five minutes. However, the product can be installed in accordance with the requirements of NFPA72 2013 edition, which allows for a 60-minute supervision window.

NOTE: Encryption shall be enabled for active communications.

Notes for using Private, Corporate and High Speed Data Networks: Network access and domain access policies shall be set to restrict unauthorized network access, and "spoofing" or "denial of service" attacks. Select the internet service providers that have redundant servers/systems, back-up power, routers with firewalls enabled and methods to identify and protect against "denial of service" attacks (i.e., "spoofing"). For UL Residential Fire and Burglary installations, the 3G4010/LE4010 is listed as a sole means of communication or as a back up when used in conjunction with a POTS line (dialer).

For ULC Residential Fire and Burglary installations, the 3G4010/LE4010 is listed as a sole means of communication or as a back up when used in conjunction with a POTS line (dialer).

## Introduction

This manual covers two communicator models, the LE4020 and the LE4020(CF). They are referred to throughout this manual as LE4020/LE4020CF unless otherwise indicated.

This LE4020/LE4020CF manages transmissions to a central station and can simulate the landline in the event of trouble (e.g., landline down) or even substitute the landline completely in areas where the 3G or 2G cellular service is provided and a landline is not available.

By connecting a to a control panel's standard PSTN interface, telephone-based Contact ID or SIA signals are decoded and seamlessly routed through the LTE or 3G network to any of the compatible receiver options. The LE4020/LE4020CF are wireless communicators for UL commercial fire and/or burglary applications. Both models send alarm system information to a Sur-Gard System I-IP, II, III, IV or 5 receiver. The LE4020/LE4020CF uses the LTE or 3G wireless network. The LE4020/LE4020CF can be used with UL/ULC Listed compatible control units, as indicated in the manufacturer's installation instructions. NOTE: These communicators are designed to work with the Contact ID communication format as described in the SIA DC-05 standard and the SIA DC-03 standard for 300 band. Before completing the field installation of the alarm monitoring system please ensure communication with the supervising central station is successful by sending several events and getting confirmation that they have been received.

## Features

- Dual-band UMTS/HSPA; Penta-Band LTE (LE4020)
- Advanced Carrier Selection
- Bi-color Wireless Signal Strength Indicator
- LTE or 3G Internet communication with Sur-Gard SG-System I-IP / II / III / IV / 5
- Compatible with listed alarm control panels that have an integrated DACT and support a 4-digit or 10digit Contact ID communication format as described in SIA DC-05 Standard and the SIA DC-03 standard for 300 baud. Example of suitable compatible alarm panels:
- DSC Models PC1864, PC1832, PC1616, PC4020. For LE4010, the following alarm panels are also compatible: HS2128, HS2064, HS2032, HS2016
- Panel Transmission Monitoring for up to four phone numbers
- Simulates landline
- Switches automatically to the LTE or 3G (LE4020CF) network in the event of landline trouble (e.g., line down)
- Four Programmable (NO/NC/SEOL) Inputs
- Contains one 12V 7 Ah battery 12V 1.2/4/7Ah battery (optional, not included)
- Case Tamper Input
- Landline overvoltage protection
- Four Programmable Outputs
- DLS support for status, firmware updates and remote debug enable
- Remote Firmware Upgrade
- Remote Diagnostics
- Panel Format Detection
- SMS Command and Control
- Phone number call direction
- Easy enrollment with C24 Communications via web or mobile interface

### Technical Specifications

be loaded up to 50 mA (max)

The input voltage to the LE4020/LE4020CF can be drawn from the UL/ULC Listed control panel or provided by an external UL/ULC Listed power supply rated for the application (external power-limited source).

NOTE: The power supply must be Class 2, Power Limited. For residential applications a suitable power adaptor is model DSC ADP1310(W)-NAU or DSC ADP1320-NAU (for USA) and model DSC ADP1310(W)-NA (for Canada).

Table 1: Ratings

Power Supply Ratings		
Input Voltage:	9 Vdc to 28Vdc (use separately listed control panel or power supply) oruse DSC ADP1310(W)-NAx or ADP1320-NAx power adapter with battery 12V 1.2/4/7Ah	
Current Consumption		
Average Current (standby with PSTN connected):	40 mA*	
Average Current (standby without PSTN connected):	55 mA*	
Transmission Current (no battery):	225 mA*	
* Plus any current drawn from	the LE4020/LE4020CF AUX+ terminal. Each of the four PGM outputs can	

Working Voltage Range		
With Battery:	(when power is provided by the external power adapter) 11 Vdc to 14 Vdc	
Without Battery:	9 Vdc to 24 Vdc	
Battery Type:	sealed, rechargeable type, rated 12 V / 1.2 Ah, 12 V / 4 Ah, 12 V / 7 Ah (for 24 hr standby time)	
Battery charging voltage:	13.75 Vdc	
Battery charge current limit:	360 mA	
NOTE: Battery must be replaced every 3 to 5 years. NOTE: When using the battery, use DSC ADP 1310-NAU(W) or ADP 1320-NAU power adapter		
Operating frequency - 3G (UMTS/HSPA):	850 MHz / 1900 MHz	
For LE4020 operating frequencies, see table below.		
Antenna gain:	2.0 dBi	
Environmental Specifications	<u> </u>	
Operating temperature:	0°C-49°C (32°F-120°F)	
Humidity:	93%RH Maximum (non-condensing)	
Mechanical Specifications		
White cabinet dimensions:	257.2 mm x 161.9 mm x 76.6 mm / 10.125" x 6.375" x 3.0"	
Weight (without battery):	1.28 kg / 2.8 lb	
Red cabinet dimensions:	295.3 mm x 258.4 mm x 77.0 mm / 11.625" x 10.175" x 3.03"	
Weight (without battery):	2.52 kg / 5.5 lb	
Simulated Telco Loop specifications (TIP/RING)		
On-Hook Voltage:	12 Vdc	
Off-Hook Voltage (Maximum):	35 Vdc	
Loop Current:	25 mA	
Loop Resistance:	600 Ohms	

## Table 2: LE4020 Operating Frequencies

Band	Transmit Band (Tx)	Receive Band (Rx)
LTE B2	1850 - 1910 MHz	1930 - 1990 MHz
LTE B4	1710 - 1755 MHz	2110 - 2155 MHz
LTE B5	824 - 849 MHz	869 - 894 MHz
LTE B12	698 - 716 MHz	728 - 746 MHz
LTE B13	777 - 787 MHz	746 - 756 MHz
UMTS B2	1850 - 1910 MHz	1930 - 1990 MHz
UMTS B5	824 - 840 MHz	869 - 894 MHz

## Installing the LE4020/LE4020CF

## **C24 Communications Enrollment**

The LE4020/LE4020CF requires enrollment with C24 Communications to operate. For more information, please visit www.connect24.com, contact C24 Communications customer service at 1-888-251-7458 (US) / 1-888-955-5583 (Canada) or contact the central station to inquire if they are a C24 Communications Master Reseller

NOTE: Enrollment with C24 Communications should be performed before turning on the LE4020/LE4020CF

Before inserting or removing the SIM card, please ensure the unit is turned off.

## Step 1 - Initialize the LE4020/LE4020CF with C24 Communications

The LE4020/LE4020CF can be initialized with C24 Communications by:

web - www connect24 com

mobile - m.connect24.com

To complete enrollment, a C24 profile, installer ID/PIN (or web credentials) and the 20-digit SIM number are required

NOTE: The SIM activation process with the cellular carrier typically takes between five and ten minutes to complete.

### Step 2 - Determine the Best Signal Location

1. Detach the front cover by removing the four screws.

Apply power (DC and/or battery). The LE4020/LE4020CF is now in Placement Test mode.

## Step 2a - SIM Card Is Activated.

The red LED is on solid, the blue LED is off and the signal strength LEDs display the average signal strength. In this state, the LE4020/LE4020CF is registered to the network.

If the signal strength is too low (bottom signal LED off or flashing), the LE4020/LE4020CF will proceed to Step 3: scan for, and attach to, carriers with sufficient signal strength. If the LE4020/LE4020CF is connected to a carrier with sufficient signal strength (minimum of bottom signal strength LED on solid), it proceeds to Step 4.

## Step 2b - SIM Card Is Not Activated

The red LED flashes, the blue LED is off and the signal strength LEDs display the average signal strength. In this state, the LE4020/LE4020CF is unable to register to the network because it is inactive. The signal strength indicated is from any nearby cell tower (including cellular towers belonging to non-roaming partners) and does not necessarily reflect the signal strength of the intended network. The LE4020/LE4020CF remains in this state until the SIM is activated. Once the SIM is activated, the LE4020/LE4020CF proceeds to Step 2a.

### Step 3 - Carrier Scanning Due To Insufficient Signal Strength

The LE4020/LE4020CF scans the surrounding network and connects to the carrier to provide a signal strength of at least 7 CSQ. While this action is being performed, all four LEDs activate to show a scanning sequence in progress. The LEDs cycle from top to bottom and then bottom to top until the LE4020/LE4020CF connectes to a carrier with a signal strength above 7 CSQ (minimum of bottom signal

strength LED on solid).

Once this is completed, the LE4020/LE4020CF proceeds to Step 4.

### Step 4 - Acquire C24 Communications Programming

The red LED is on solid and the blue LED flashes. The flashing blue LED indicates that the 3G4010/LE4010 has requested programming from C24 Communications and is waiting for a response. Once remote programming is completed, the blue LED switches to solid and the LE4020/LE4020CF proceeds to Step 5.

## Step 5 - Receiver Initialization

The red and blue LED's are both on solid and the signal strength LEDs are off.

When the LE4020/LE4020CF sends a request to communicate with the central station, the top signal strength LED begins flashing.

When the central station communicates back to the 3G4010/LE4010, the top signal strength LED turns on solid

When the LE4020/LE4020CF sends a request to communicate to the next central station, the bottom signal strength LED begins flashing...

...and turns on solid when it receives a communication back from the central station.

If at least one of the central stations does not respond back to the communicator, the signal strength LED corresponding to that central station turns off. Once the initialization sequence is complete, the LE4020/LE4020CF switches to steady state operation.

## Step 6 - Mount the LE4020/LE4020CF

- Power down the LE4020/LE4020CF by removing the DC power source and battery leads.
- Using the cabinet, mark the four screw locations. Drill the anchor screw holes.

NOTE: Check for cable conduits and water pipes before drilling.

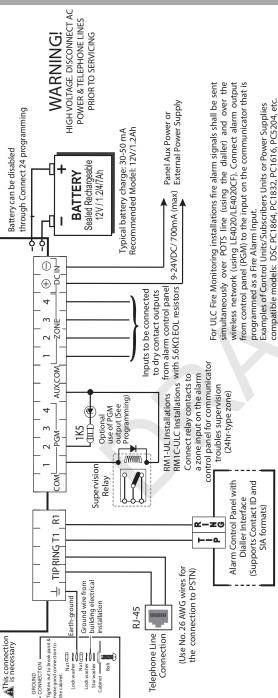
- Using anchor screws (not provided), mount the cabinet to the wall.
- Run the cables through the cable entry [13] or through the cabinet knockouts.

5. Complete the connections on the terminal blocks [11]. NOTE: Ensure that power and Telco circuit connections are made only after the cabinet has been secured to the building or structure, and has been connected to the protective earth ground. Descriptions of the terminals can be found in the 'Connecting the LE4020/LE4020CF' section.

Reattach the front cover [1] securely to the cabinet.

NOTE: Please refer to the end of this manual for wiring diagrams.

## 3G4010/LE4010 Wiring Diagram



All circuits are classified for UL installations as Power Limited/Class II Power Limited except for the battery leads which are not Power Limited. Do not route any wiring over circuit boards. Maintain at least 1" (25 4mm) separation. A minimum 1/4" (6.4mm) separation must be maintained at all points between Power Limited wiring and all other Non-Power WARNING: Incorrect connections may result in PTC failure or improper operation. Inspect wiring and ensure connections are correct before turning on. Limited wiring. Route wires as indicated in the diagram.

Monitoring Station Burglar Alarm Systems and the Standard for the Installation of Residential Fire Warning Systems, CAN/ULC-5540. Do not install the equipment in places where the signal strength does not meet the minium recommended signal strength level. Do not run zone inputs and T1/R1 wiring along AC wires or other circuits with high frequency signals tions; CAN/ULC-5302, Installation and Classification of Burglar Alarm Systems for Financial and Commercial Premises, Safes and Vaults; and CAN/ULC-5301, Standard for Central and For ULC Installations, the recommended locations and wiring methods shall be in accordance with CSA C22.1, Canadian Electrical Code, Part I, Safety Standard for Electrical Installa-For UL Installations, the system shall be installed in accordance with chapter 2 of the ANSI/NFPA 72 and ANSI/NFPA70. Recommended locations and wiring methods shall be in accordance with the National Electrical Code, ANSI/NFPA 70, the Standard for Installation and Classification of Burglar and Holdup Alarm Systems, UL 681, and the Standard for in order to reduce possibility of interference and false alarms. Central-Station Alarm Services, UL 827.

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EULA
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## Regulatory Information

### **Modification Statement**

Digital Security Controls has not approved any changes or modifications to this device by the user. Any changes or modifications could void the user's authority to operate the equipment.

Digital Security Controls n'approvie aucune modification apportée à l'appareil par l'utilisateur, quelle qu'en soit la nature. Tout changement ou modification peuvent annuler le droit d'utilisation de l'appareil par l'utilisateur.

#### Interference Statement

Interference Statement
This device complies with Part 15 of the FCC Rules and ISED Canada
licence-exempt RSS standard(s). Operation is subject to the following two
conditions: (1) this device may not cause interference, and (2) this device
must accept any interference, including interference that may cause
undesired operation of the device.
Le présent appareil est conforme aux CNR d'ISED Canada applicables aux
appareils radio exempts de licence. L'exploitation est autorisée aux deux
(2) l'utilis attente l'appareil au doit pas produire de brouillage act
(2) l'utilis attente l'appareil est accept tout brouillage radio-elegrique
subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

### Wireless Notice

Wireless Notice
This equipment complies with FCC and IC radiation exposure limits set forth for an uncontrolled environment. The antenna should be installed and operated with minimum distance of 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. Cet appareil est conforme aux limites d'exposition aux rayonnements de la Cpour un environnement non contrôle. L'antenne doit être installé de rayonnements et votre corps. L'émetteur ne doit pas être colocalisé ni fonctionner conjointement avec à autre antenne ou autre émetteur. Antenna gain must be below/Gain de l'antenne doit être ci-dessous:

Frequency Band/Bande de fréquence	LE4020; LE4020CF
GSM 850 / FDD V	1.3 dBi
PCS 1900 / FDD II	6.8 dB
LTEB2	6.8 dBi
LTEB4	4.6 dBi
LTEB5/B12/B13	1.3/1.2/2.2 dBi

### FCC Class B Digital Device Notice

FCC Class B Digital Device Notice
This equipment has been rested and found to comply with the limits for a Class B pigital dace been rested and found to comply with the limits for a Class B pigital dace provided to provide pusuant to part 15 of the FCC Rules. These limits re- estigated to provide resumbly objected an 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:

\*Reorient or relocate 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/TV technician for help.

LE4020: FCC ID: XXXX LE4020 Product Identifier US: XXXX

LE4020CF: FCC ID: XXXX LE4020CF Product Identifier US: XXXX USOC Jack: RI-31X USOC Jack: RI-31X Associated and the second separation of distance of 20cm or more must be maintained between the antenna of this device and persons during device operation

## **Telephone Connection Requirements**

A plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by the ACTA. A compliant telephone cord and modular plug is provided with this product. It is designed to be connected to a compatible modular jack that is also compliant. See installation instructions for details.

Ringer Equivalence Number (REN)
The REN is used to determine the number of devices that may be connected to a telephone line. Excessive RENs on a telephone line may result in the devices not ringing in response to an incoming call.

In most but not all areas, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local Telephone Company. For products approved after July 22, 2001, the REN for this product is part of digits represented by ## are the REN without a decimal point (e.g., 03 is a REN of 0.3). For earlier products, the REN is separately shown on the label.

Incidence of Harm

Incidence Of Harm

If this equipment LE4020/LE4020CF causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice is not practical, the Telephone Company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

### Changes in Telephone Company Equipment or Facilities

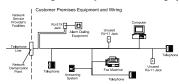
The Telephone Company may make changes in its facilities, equipment, operations or procedures that could affect the operation of the equipment. If this happens the Telephone Company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted

**Equipment Maintenance Facility** 

Equipment maintenance Facility If trouble is experienced with this equipment for repair or warranty information, please contact the facility indicated below. If the equipment is causing harm to the telephone network, the Telephone Company may request that you disconnect the equipment until the problem is solved. This equipment is of a type that is not intended to be repaired by the end user. DSC 2/0 APL Logistics, 2600 West Pointe Dr.., Lithia Springs, GA 30122

### Additional Information

Additional Information
Connection to party line service is subject to state tariffs. Contact the state public utility commission, public service commission or corporation commission for information. Alarm dialling equipment must be able to describe the state power of the state power of the state of the



**Industry Canada Compliance Statement** 

Industry Canada Compliance Statement
This Equipment meets the applicable Industrial, Scientific and Economic Development (ISED) Terminal Equipment Technical Specifications. This is represented by the Industrial Specifications. This is represented by the Industrial Specifications are separated by the Industrial Specification was performed based on a Declaration of Conformity indicating that ISED Canada technical specifications were met. It does not imply that that ISED Canada approved the equipment is 0.0. The REN assigned to each terminal equipment is 0.0. The REN assigned to each terminal equipment provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Numbers of all devices does not exceed 5. IC:160A-LE4020 IC:160A-LE4020 IC:160A-LE4020 Feet deutement est conforme aux spécifications techniques applicables aux

IC:160A-LE4020
IC:160A-LE4020
Cet équipement est conforme aux spécifications techniques applicables aux équipements terminaux d'ISED Canada. Ceci est confirmé par le numéro d'enregistrement. L'abréviation IC précédant le numéro d'enregistrement signifique per le respective de la conformité indiquat que le produit est conforme aux spécifications techniques d'ISED Canada. Ceci n'implique pas que le produit ait et de approuve le REN attribué à chaque équipement terminal fournit une indication sur le nombre qualitation de sonneries (REN) de cet appareit terminal est 0.0. Le REN attribué à chaque équipement terminal formit une indication sur le nombre maximum de terminaux pouvant être connectés sur une interface téléphonique. La terminaison sur une interface peut constituer en n'importe quelle combinaison d'appareils, à la condition seulement que la somme des Nombres équivalents de sonneries de tous les appareils ne soit pas supérieure à 5.

This Class B digital apparatus meets all requirements of the Canadian interference-causing equipment regulations. Cet appareil numérique de la Classe B respecte toutes les exigences de réglement sur le matériel brouileur d'acnada (Canada (

### Warranty

Warranty
Digital Security Controls warrants the original purchaser that for a period of welve 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 innet (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 workmanship such written notice to be received in all events prior to respect and to the software products are soft 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

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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's uch as fire, flood, wind, earthquake or light-

- damage caused by disastic such as the control of Digital Security Controls ning;
- 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 by peripherals (unless such peripherals were supplied by Digital Security Controls);
- defects caused by failure to provide a suitable installation environment for the modulets:

for the products:
- damage caused by use of the products for purposes other than those for which it was designed;
- damage canon improper maintenance;
- damage arising out of any other abuse, mishandling or improper application of the products.

Items Not Covered by Warranty

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 DSCs product label and lot number or serial number; (iii) products disassembled or repaired in such a manner and to adverty a free performance or prevent adequate inspection or testigate of the product disassembled or repaired in such a manner and to adverty a free performance or prevent adequate inspection or testigate of the product of the

### Disclaimer of Warranties

Disclaimer of Warranties
This warranty contains the entire warranty and shall be in lieu of any and all other warranties, whether expressed or implied (including all implied warranties of merchantability or fitness for a particular purpose) And of all other obligations or liabilities on the par of Digital Security Controls Digital Security Controls Digital Security Controls Digital Security Controls Digital properties of the particular of t

## This disclaimer of warranties and limited warranty are governed by the laws of the province of Ontario, Canada.

Digital Security Controls recommends that the entire system be com-pletely tested on a regular basis. However, despite frequent testing, and due to, but not limited to, criminal tampering or electrical disruption, it is possible for this product to fail to perform as expected.

## 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** 

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 predection and the first of the set of

each replacement unit.

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