

GS3060

GSM-GPRS INTERFACE

INSTALLATION MANUAL



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.

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IMPORTANT

The equipment is fixed, wall-mounted and shall be installed in the position 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
- 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 personnel 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 lithium battery pack. 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.

Introduction

The GS3060 is a wireless communicator that sends alarm system information to an SG-System III, SG-System II, or SG-System I receiver through a GSM/GPRS wireless network. This wireless communicator can be used with UL/ULC Listed compatible control units, as indicated in the manufacturer's installation instructions.

NOTE: The GS3060 is designed to work with the Contact ID communication format as described in SIA DC-05 Standard. 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

- Compatible with 4-digit or 10-digit Contact ID communication format as described in SIA DC-05 Standard. Example of suitable compatible alarm panels: DSC Models PC1864, PC1832, PC1616, PC4020.
- Simulates landline
- Switches automatically to the GSM network in the event of landline trouble (e.g., line down)
- GSM Signal Indicator
- Four programmable outputs
- Contains one 12V - 1.2 Ah battery
- Case Tamper Output
- Landline overvoltage protection
- Dual-band GSM radio
- Four programmable inputs
- GPRS/Internet communication with Sur-Gard System III / II
- Panel transmission monitoring for up to four phone numbers

Technical Specifications

The input voltage to the GS3060 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 II, Power Limited. For residential applications a suitable power adaptor is model DSC ADP1310-NAU (for USA) and model DSC ADP1310-NA (for Canada).

Ratings

Power Supply Ratings - Input Voltage (for long-term operation)

JP3-OFF with internal battery: 13.8Vdc required

JP3-ON without internal battery: 13.8Vdc recommended

NOTE: When the input voltage drops below 13.5Vdc, the internal battery supplied with the GS3060 will not be charged. In order to maintain a charged level for the internal battery, the power supply must have a minimum voltage of 13.5Vdc to ensure a sufficient battery charge in all conditions of use.

Current Consumption

JP3-OFF with internal battery: 120mA*

JP3-ON without internal battery: 500mA*

** Plus any current drawn from the GS3060 AUX+ terminal*

Working Voltage Range 9-14Vdc

Battery: sealed, rechargeable type, rated 12V/1.2Ah or 12VAh (for 24hr standby time)

Battery charging voltage: 13.5Vdc

Battery charging current: 50mA

NOTE: Battery must be replaced every 3-5 years.

Operating frequency: 850/1900MHz

Antenna gain: 2.0dBi

Environmental Specifications

Operating temperature: 0°C-49°C (32°F-120°F)

Humidity: 93%RH Maximum (non-condensing)

Mechanical Specifications

Dimensions (metal enclosure, painted): 138mm x 224mm x 55mm / 5.4" x 8.8" x 2.2"

Weight (without battery): 900g / 3.2oz

Internal Event Buffer (communications): 256 Events (not viewable)

Simulated Telco Loop specifications (TIP/RING)

On-Hook Voltage: 35Vdc

Loop Current: 25mA

Loop Resistance 600 Ohms

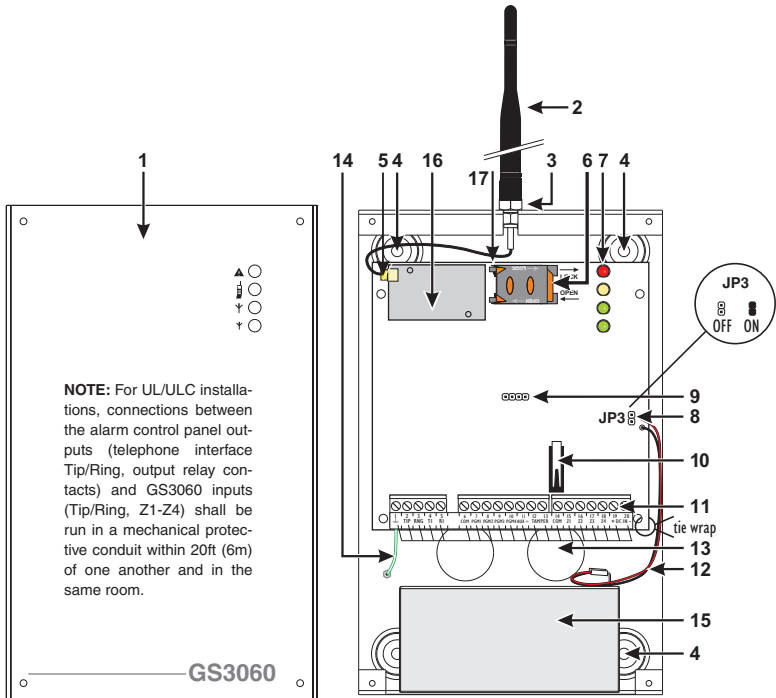
Alternate construction

Dimensions (enclosure GS3060RF): 165mm x 257mm x 76mm / 6.3" x 10.1" x 3"

Weight (alternate construction enclosure without battery): 1300g / 2.8lbs

Identification of Parts

Figure 1 - Parts



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) of separation must be maintained at all points between Power Limited wiring and all other non-Power Limited wiring. Route wires as indicated above.

Table 1: Parts

Parts	
1	Metal Casing
2	GSM Antenna
3	GSM Antenna Mounting Hardware
4	Anchor Screw Holes (3mm)
5	GSM Antenna Connector
6	SIM Card
7	Status LEDs (see page 5)
8	JP3 Current Limitation Jumper (refer to Ratings Section)
9	PC-Link Connector
10	Tamper Switch
11	Terminal Blocks
12	Battery Leads
13	Cable Entry
14	Earth Ground Wire
15	12V - 1.2Ah Battery
16	GSM Radio Module
17	SIM Card Holder

This equipment GS3060 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.

Description

This GS3060 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 GSM service is provided and a landline is not available.

The GS3060 has the capability of communicating alarm signals via the GPRS data network. This capability ensures a fast, reliable path to central stations equipped with a Sur-Gard System III or System II receiver. By connecting a GS3060 to a control panel's standard PSTN interface, telephone-based Contact ID signals are decoded and seamlessly routed through the GPRS network to any of the compatible receiver options.

The performance of the GS3060 depends greatly on GSM 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 – GS15/25/50-ANT (15ft/4.6m, 25ft/7.6m or 50ft/15.2m) – are available.

The GS3060 requires enrollment with CONNECT 24 to operate. Dealer application forms and additional information on the CONNECT 24 Voice Response Unit (VRU) and web user interface can be found at www.connect24.com, or at the following telephone numbers:

USA 1-888-251-7458 CANADA 1-888-955-5583

For UL Residential Fire and Burglary installations, the GS3060 is listed as a sole means of communication or as a back up when used in conjunction with a POTS line (dialer). For UL Residential Fire installations, when installed in the alternate enclosure model GS3060RF, the GS3060 has provisions for 24-hour standby power.

For UL Commercial Burglary installations, the GS3060 is listed as a sole means of communication (supervision window of 200s required at monitoring station) or as a back-up when used in conjunction with a POTS line (dialer).

The GS3060 shall be powered from any compatible listed control unit or compatible listed power supply that complies with the ratings specified on page 1. The power supply shall be listed for burglary applications and provide a minimum of 4 hours standby power capabilities. An example of a suitable listed compatible control unit is the DSC Model PC1864 with an AUX output rated 11.1 - 12.6VDC. An example of a suitable Listed power supply is DSC Model PC5204 with an AUX output rated 11.6 - 12.6VDC.

For ULC Commercial Fire Monitoring installations the GS3060 is listed as a passive communication system when used in conjunction with a POTS line (dialer). Fire alarms shall be sent simultaneously over both communication methods (GSM network and PSTN).

For ULC Commercial Burglary installations the GS3060 is listed as a passive communication system with communication line security level P2 when used as a back up in conjunction with a POTS line (dialer).

For ULC Residential Fire and Burglary installations the GS3060 is listed as a sole means communication or as a back up when used in conjunction with a POTS line (dialer).

ATTENTION: The GS3060 is equipped with a current limiter that limits current demand on the 12Vdc power input to 120mA. The current limiter is enabled by default (see Part #8 in 'Identification of Parts' on page 3) with JP3 in the OFF position. The current limiter can be disabled (bypassed) with JP3 in the ON position. When the GS3060 12Vdc power input is supplied by the Alarm Panel Aux+ output, DSC recommends that the current limiter be active to limit the demand from the panel. If the alarm panel is intended to supply all of the current demand, you must ensure that the panel can supply 500mA and that the current limiter is disabled. When the GS3060 is transmitting, the current demand exceeds 120mA (500mA). With the current limiter in place, the additional current demand is supplied by the GS3060 battery.

NOTE: With the current limiter active, there is a risk of discharging the GS3060 battery when transmission frequency is high. The back up battery must always be connected to the device when the current limiter is enabled.

If power to the GS3060 is supplied by an external power supply (recommended 13.8 Vdc, 0.7A), the current limiter must be disabled to allow the full current demand to be supplied. In this configuration the GS3060 battery is not required.

Installing the GS3060

CONNECT 24 Enrolment Information

Only authorized dealers can enrol a GS3060 with CONNECT 24. Dealer application forms and additional information on the CONNECT 24 Voice Response Unit can be found at the CONNECT 24 website www.connect24.com. Please contact CONNECT 24 at the number below for assistance:

USA 1-888-251-7458 CANADA 1-888-955-5583

NOTE: Steps 1 and 2 should be completed before turning on the GS3060 unit.

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

STEP 1 - Activate Your SIM Card

Your SIM card must be activated with Connect 24 prior to use. **Please call the Voice Response Unit (VRU) at least 24 hrs prior to installation at 1-866-910-3865.**

STEP 2 - Initialize the GS3060 with Connect 24

Call the VRU at the toll-free number. Follow the voice prompts and enter your profile number, installer ID number, installer PIN number and central station number. Ensure that all information is available and at hand before calling the VRU. This information can be found in your VRU Enrollment Package.

STEP 3 - Determine the Best Signal Location

1. Unscrew the four screws securing the front panel to the cabinet. Remove the front panel.
2. Fit the GSM antenna [2]. Ensure the GSM antenna mounting hardware is fastened securely [3].
3. Attach the GSM radio module with the GSM antenna connector. Ensure that the connector is secure.
4. Turn on the GS3060 and check the signal strength.
5. Connect the battery to the RED and BLK battery leads.
6. Connect the DC power source to +/- 12V terminals.
7. Allow the unit to power up.

NOTE: The green LEDs will indicate the signal strength. The bottom green LED must be on for the location to be acceptable. Please refer to the 'Status LEDs' section for more information.

8. Power down the GS3060 by removing the DC power source and battery leads.

STEP 4 - Connect the GS3060

1. Using the cabinet, mark the four screw locations. Drill the anchor screw holes.

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

2. Using anchor screws (not provided), mount the cabinet to the wall.
3. Run the cables through the cable entry [13] or through the cabinet knockouts.
4. 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 GS3060' section.

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

NOTE: Please refer to Figure 2 at the end of this manual for wiring diagram.

Connecting the GS3060

⚡ (1) Earth Ground - This terminal must be connected to the Mains Earth, in order to comply with the Telecommunications Network Safety Standards (Overvoltage Protection Requirements).

TIP (2) / RNG (3) External Telephone Line - These terminals must be connected directly to the incoming telephone line.

T1 (4) / R1 (5) Internal Telephone Line - These terminals must be connected to the TIP and RING of the control panel.

COM (6,14) Common - This terminal is connected internally to Power Ground.

PGM1 (7), PGM2 (8), PGM3 (9), PGM4 (10) Programmable Open-collector Outputs - These outputs can be activated by programmed events. Refer to 'Activating the Outputs' for details. The maximum current sink of each output must not exceed 50mA.

AUX+ (11) Auxiliary 12V Output - +12V Output, 200mA PTC Protected.

NOTE: Electrical current drawn from this terminal is drawn directly from the power supply. This must be added to the GS3060 current when determining the total draw on the host panel or power supply. Jumper JP3 does not limit the electrical current available on this output.

Tamper (12-13) - These terminals are connected in series to the Tamper switch [10]. They will close when the cabinet is properly closed, and will open when the front cover is removed.

Z1-Z4 (15-16-17-18) Programmable Inputs - These terminals can be set up to trigger events. Refer to 'Inputs' for details.

12V (19), COM (20) Device Power Supply - These terminals must be connected to a rated power supply. Once the connections are completed, connect the battery leads (Red and Black wires, [12] in Figure 1) to a 12V, 7Ah battery.

Jumper JP3

JP3 ON - Full power, including standby capacity, comes from the host panel or external power supply. Supply must be capable of up to 700mA. The GS3060 battery must *not* be connected.

JP3 OFF - Current limiting mode, the host panel or external supply provides standby current. Supply must be capable of 120mA plus any current drawn from AUX+ terminal. GS3060 battery must be installed for proper operation.

NOTE: The power supply must have a minimum voltage of 13.5V to ensure a sufficient battery charge. An example of a suitable power supply is the DSC Model ADP1310-NA with DC output rated 13.8 VDC, 1Amp. This is to be used in conjunction with a 12V/7Ah rated battery for UL/ULC listed residential installations.

NOTE: This mode of operation must not be used for ULC Listed Fire Monitoring installations.

NOTE: When disposing of batteries, follow the instructions and precautions printed on the batteries, and contact your municipal offices for information on the disposal of used batteries.

Status LEDs

The GS3060 interface has four status LEDs. The following describes the control panel status LEDs.

NOTE: The top two LEDs blink during the Initializing and Programming phases.

 **RED** - This LED is normally Off; but, it will flash in the event of a trouble. This LED will switch on within three minutes in the event of GSM Module [16] trouble, or when the GSM Network is unavailable, 'No Service'. If this LED flashes, the following list indicates the specific trouble based on the number of flashes, by priority. When turned on, the GS3060 checks for the trouble conditions to be restored in the order listed below. The GS3060 indicates the status of the highest priority, unrestored trouble condition with the corresponding number of flashes of the red LED. Once the highest priority trouble condition has been cleared, the next highest priority trouble condition is displayed.

1 flash - Battery Trouble (Battery with low voltage output)

2 flashes - Radio/SIM Trouble (Battery absent or SIM Card disconnected)

3 flashes - GSM Network Problem (SIM not active, poor signal strength, antenna not connected)

4 flashes - Insufficient Signal Strength (poor location)

5 flashes - Connect 24 Configuration SMS Trouble (Improper VRU programming. Once the configuration is ready, turn off power for 2-3 seconds to allow the unit to restart and request again)

6 flashes - Receiver not available (Improper VRU programming, receiver absent)

7 flashes - Power Supply Trouble (DC power supply absent)

Off - No Troubles



YELLOW - When this LED is On (solid), a Phone Line Trouble condition exists. This LED switches on when the interface switches to the GSM Network (due to a Landline trouble condition). This LED flashes slowly in the event of an incoming or outgoing voice call (regardless of the operating status of the landline). This LED can also flash quickly once (GPRS TX) or twice (GPRS RX).



GREEN (Top) - When this LED is On, the reception is optimal. This LED switches On only when the other Green LED is on.



GREEN (Bottom) - If this LED is Off and the Red LED is On, the GSM Network service is unavailable (NO SERVICE). This LED flashes when the GSM Network reception is poor. If this LED is on, the GS3060 is able to communicate with the GSM network.

Operating Principles

Simulated Landline Mode

The simulated landline provides the alarm control panel (with dialer interface) with a back up line in the event of PSTN line trouble. If the voltage on the landline terminals (TIP/RNG) drops below 2.8V for a period of between 10 seconds and 45 seconds - depending on the device connected to the T1/R1 terminals- the GS3060 switches the connected telephone device to the GSM network. After waiting between 30 and 40 seconds, it checks the landline for one of the following:

- If the landline has been restored, the GS3060 switches the connected device back to the landline, OR
- If the landline is still down, the GS3060 continues the simulation until the landline is restored. The GS3060 will not switch during ongoing calls.

NOTE: When the landline is down, the GS3060 provides a dial tone to any device connected to T1 and R1, including any telephones on the premises. The phones on the premises will not, however, be able to dial out over the GS3060.

Panel Transmission Monitoring (PTM)

The GS3060 can also monitor the panel's attempt to communicate with the central station. If it determines that the panel is having difficulty, it switches the line to the GSM network. This feature is only active when the GS3060 is configured as a back up communicator. This feature is in addition to the regular line voltage detection.

The GS3060 monitors the phone line for four consecutive failed attempts within a 12-minute window. A failed attempt is assumed to have occurred when a line seizure takes place during dialing (either the alarm panel or the customer telephone), but no 1400Hz tone (or Contact Kiss-off) is sent from the receiver. Once the conditions for a failed attempt are met, the GS3060 connects the panel to the GSM network to communicate the events. When the GS3060 switches the line it stays in this mode until the panel hangs up. On the next event the GS3060 restarts the error detection sequence before switching.

The GS3060 performs this sequence on any phone number that is detected on the line. Specific central station phone numbers can be programmed into the GS3060 if desired. Up to four, 20-digit numbers can be added to your installer profile at Connect 24. If programmed, the GS3060 will only look for Contact ID Kiss-off after these numbers are dialed. A Telephone Line Monitoring trouble (PGM output activation and/or reporting code if applicable) is also activated and/or transmitted when the PTM is activated. A restoral is sent at the end of the call.

GPRS Sequence

- When an alarm is triggered, the control panel goes off-hook.
- The GS3060 asserts a dial tone.
- The Control panel dials the number of the central station. Ensure that the alarm panel inserts a minimum one second pause, or has Dial Tone Search enabled before dialing the number.
- The GS3060 detects the DTMF dialing and stops dial tone.

NOTE: The GS3060 is unable to decode pulse dialing.

- The GS3060 sends the required Contact ID dual-tone handshake to the panel.
- After receiving the handshake, the control panel transmits an alarm message in Contact ID format.
- The GS3060 decodes and transforms the Contact ID digits into an IP packet and sends it to the central station receiver over the GPRS network.
- The central station receiver acknowledges the alarm and sends a command to the GS3060 to generate the corresponding 1400Hz Kiss-off signal for a minimum of 800msec.

After the GS3060 generates a Kiss-off signal, it sends the next alarm or, if no further alarms need to be sent, the control panel goes on-hook.

Inputs

The GS3060 has four inputs that can be used to trigger specific communications. These events will transmit using Contact ID format with Inputs 1-4 reporting as [991] to [994] respectively.

Default settings are:

INPUT 1 - FIRE	INPUT 3 - BURGLARY
INPUT 2 - PANIC ALARM	INPUT 4 - SYSTEM TROUBLE

These inputs are normally open and will activate when a short condition is detected between the terminal and the COM. Refer to the GS3060 Wiring Diagram (Figure 2) at the back of this manual.

NOTE: These inputs communicate using Contact ID format.

NOTE: For UL/ULC installations, connections between alarm panel outputs and GS3060 inputs must be run in protective mechanical conduits. To reduce interference with the antenna, it is recommended that the metal conduit is not connected to the knock-outs in the top of the cabinet.

Outputs

The GS3060 has four programmable outputs to activate in response to the associated events. Refer to the GS3060 Wiring Diagram (Figure 2) at the back of this manual.

Activating the Outputs

The GS3060 has four open collector outputs capable of a maximum of 50mA. Internal events on the GS3060 can trigger the outputs to turn on an LED or activate an input on the host panel. The default settings are as follows.

OUTPUT 1 Landline Trouble - Output is normally high and will switch to ground when the telephone line is down.

OUTPUT 2 GSM Module or Network Trouble - Output is normally high and will switch to ground when the GS3060 can not communicate with the GSM network.

OUTPUT 3 Power Supply or Battery Trouble - Output is normally high and will switch to ground when there is a problem with the power source.

OUTPUT 4 General Module Trouble - Output is normally low and will switch to high when a GSM Trouble, Power Supply/Battery Trouble, and/or a Failure to Communicate (FTC) trouble is detected.

NOTE: PGM4 must be connected to the control panel as shown in Figure 4. Program the control panel input Zone/Point as 24hr 'Supervisory' with keypad-only notification when activated. Output 4 on the GS3060 must be set as 'Active High'.

NOTE: Once an output has been activated automatically, it will not restore its state until all the causes of activation are cleared.

Contact ID

Events Description	Event Codes
INPUT 1 ACTIVATION:	E110 FIRE ZONE 001 991
INPUT 1 RESTORAL:	R110 FIRE ZONE 001 991
INPUT 2 ACTIVATION:	E120 PANIC ALARM ZONE 002 992
INPUT 2 RESTORAL:	R120 PANIC ALARM ZONE 002 992
INPUT 3 ACTIVATION:	E130 BURGLARY ZONE 003 993
INPUT 3 RESTORAL:	R130 BURGLARY ZONE 003 993
INPUT 4 ACTIVATION:	E300 SYSTEM TROUBLE ZONE 004 994
INPUT 4 RESTORAL:	R300 SYSTEM TROUBLE ZONE 004 994
PSTN LINE DOWN:	E351 TELCO 1 FAULT 000
PSTN LINE RESTORAL:	R351 TELCO 1 FAULT 000
12V INPUT LOSS:	E337 EXP. MOD. DC LOSS 000
12V INPUT RESTORAL:	R337 EXP. MOD. DC LOSS 000
LOW BATTERY ALERT:	E338 EXP. MOD. LOW BAT 000
LOW BATTERY RESTORAL:	R338 EXP. MOD. LOW BAT 000
PERIODIC REPORT:	E603 PERIODIC RF XMISSION 000
PERIODIC REPORT WITH OFF-NORMAL CONDITION:	E608 PERIODIC TEST XMISSION SYSTEM TROUBLE PRESENT 000
GSM UNIT ACTIVATION:	R552 RADIO XMITTER DISABLED 000
GSM INTERNAL BUFFER FULL:	E624 EVENT LOG OVERFLOW 000
FTC RESTORAL:	R354 FAILURE TO COMMUNICATE 000

Swinger Shutdown

Swinger Shutdown is followed by a PSTN line trouble, limiting this event to a maximum of 3 trouble reports every 24 hours (including the PSTN line trouble sent when PTM is active). The condition will restore at midnight at which point the counter is reset.

Hardware Default

To perform a hardware default and force the unit to get the latest configuration from Connect 24, follow these steps:

- Power down the unit.
- Place a short between the PGM1 and Input 1 terminals.
- Power up the unit. This will perform a hardware default and request the configuration from Connect 24.
- Remove the short between PGM1 and Input 1.

NOTE: A Hardware default must be performed when the SIM card is being swapped.

Low Power Radio Shutdown

When the battery voltage reaches the low battery threshold of 10.5V, the unit turns off the radio to prevent unnecessary network registrations. In this state, the unit does not communicate any events. Radio shutdown is indicated by the LEDs as follows:

- for 1 second -- red is on, yellow is off, green 1 is off, and green 2 is off.
- for 1 second -- red is off, yellow is on, green 1 is on, and green 2 is on.

This LED sequence will continue to be displayed until the low battery voltage is restored and the radio enabled again.

Connect 24 Remote Programming

The inputs, outputs, and other features can be remotely programmed through Connect 24 (C 24) for fast and convenient installation using the internet.

NOTE: This programming option has not been investigated by UL.

Troubleshooting Guide

Powering up the GS3060 – when powering up the GS3060, always connect the battery first before connecting primary DC power from the control panel or transformer.

Wiring Primary – R-1/T-1 of GS3060 to RING/TIP of control panel, DC power from control panel or DC transformer to DC input, backup battery if JP3 OFF.

Wiring Backup – Incoming line to RING/TIP on GS3060, R-1/T-1 of GS3060 to RING/TIP of control panel, R-1/T-1 of control panel to house phones, DC power from control panel or DC transformer to DC input, backup battery if JP3 OFF.

Testing Communications – when the GS3060 transmits a signal for the control panel, or for an internal transmission, the YELLOW light will flash one time when the signal is transmitted and two times when it gets a kiss-off.

SIM – the SIM should be activated at least 24 hours prior to installation. The GS3060 will not show signal strength until the SIM is active.

Panel Programming – the control panel should be programmed to communicate Contact ID exactly the same way it would be programmed to communicate Contact ID over the telephone line.

Green Light Status	What it means:	Signal Strength Status
Both Green Lights ON	Excellent Signal Strength	• Unit can be installed in the current mounting location
One Green Light ON	Good Signal Strength	• Unit can be installed in the current mounting location
Bottom Green Light FLASHING	Poor Signal Strength	• Ensure the antenna cable is plugged securely into the radio connector • If the SIM is active, connect a battery to the unit and test various locations for good/excellent signal strength • Connect an antenna extension kit (GS-15ANT, GS-25ANT or GS-50ANT)
Both Green Lights OFF	No Signal Strength	• If the red light is also FLASHING, refer to the RED light chart • Verify SIM card is activated • Ensure the antenna cable is plugged securely into the radio connector • If the SIM is active, connect a battery to the unit and test various locations for good/excellent signal strength • Connect an antenna extension kit (GS-15ANT, GS-25ANT or GS-50ANT)

Yellow Light Status	What It Means: GSM Status/Communication Indicator
Yellow Light ON	- When used as the primary communicator, the yellow light will always be ON. - When used as a backup communicator, the yellow light will be ON when there is a no phone line connected to the GS3060 TIP and RING, or the line voltage goes below 2.8VDC.
Yellow Light OFF	Indicates a good phone line is connected to the GS3060. (more than 2.8 VDC detected across the GS3060 TIP and RING terminals).
Yellow Light FLASHING	The yellow light will flash one time when the GS3060 transmits a signal and two times when a kioff is received.

Red Light Status	What it means: Trouble Status	Trouble Status - Troubleshooting Steps
One Flash	GS3060 Low Battery	- Measure the battery under load and verify it is charged to at least 12.5 VDC. If not, wait at least 1 hour for the battery to charge - Remove the battery and measure the voltage across the two battery leads; the voltage should be at least 13.5 VDC - Verify the input DC supply is rated at 13.8VDC @ 120mA minimum - Ensure the GS3060 jumper J3 is OFF
Two Flashes	SIM/Radio Trouble	- Ensure the SIM Card is inserted correctly and firmly - Ensure the antenna cable is plugged securely into the radio connector - Ensure the power source connected to the GS3060 is providing 13.8VDC @ 120mA and that the battery is fully charged
Three Flashes	GSM Network Problem	- Ensure the SIM card has been activated - The antenna cable should be plugged securely into the radio connector - Ensure there is good signal strength (at least one green light ON) - Verify the installation area is not experiencing a network outage
Four Flashes	Insufficient Signal Strength	- Ensure there is good signal strength (at least one GS3060 green light ON) - Ensure the antenna cable is plugged securely into the radio connector
Five Flashes	Configuration Trouble	Ensure the SIM card is activated
Six Flashes	Receiver Not Available	- Contact the monitoring station to verify that the GS3060 programming is correct (port, IP address, DNIS) - Contact your central station to verify they are not experiencing any receiver issues
Seven Flashes	DC Supply Trouble	Ensure the power source connected to the GS3060 is providing 13.8VDC @ 120mA

The Red light will flash to indicate various trouble conditions outlined previously. If multiple trouble conditions are present, the red light will flash according to the highest priority trouble. For example, if both a GS3060 low battery trouble (one flash) and an insufficient signal strength trouble (four flashes) are present; the red light will flash one time. Once the GS3060 low battery trouble condition is corrected, the red light will then begin flashing four times.

General Troubles With Your System	
The control panel is displaying a telephone line trouble condition	- Ensure T1 and R1 of the GS3060 are wired to the TIP and RING terminals of the control panel - If the GS3060 is being used as the primary communicator, the yellow light will always be ON - If the GS3060 red light is FLASHING, refer to the Red Light Status Chart
The control panel displays a communication trouble condition	- Ensure the panel is programmed for Contact ID - Ensure the control panel does not indicate a TLM trouble condition - If the GS3060 red light is FLASHING refer to the Red Light Status chart in this guide
No signals are received at the central station but no trouble condition is displayed	- Ensure the control panel has a central station phone number programmed - Ensure the control panel has the correct account number programmed - Verify the reporting codes are programmed or the auto Contact ID option is enabled - Ensure the control panel communicator is enabled - Connect a handset to T1 and R1 of the GS3060 in monitor mode to verify the control panel is trying to communicate
Not receiving internal signals generated directly from the GS3060	- Ensure the GS3060 was initialized with the correct account number. This can be checked by logging into the Connect 24 website - Ensure that there are no trouble conditions on the GS3060
The GS3060 Yellow and Red lights flash constantly	- Ensure there is good signal strength (at least one GS3060 green light ON) - Ensure the SIM card is activated. Depending on signal strength and network activity it can take up to 10 minutes for the network to program the unit; wait at least 15 minutes for the programming to be completed - Cycle power and verify SIM and signal
The phone line is seized when the GS3060 is connected	- Verify correct phone line wiring - Ensure the Ringer Equivalency Number (REN) is not being exceeded on the line

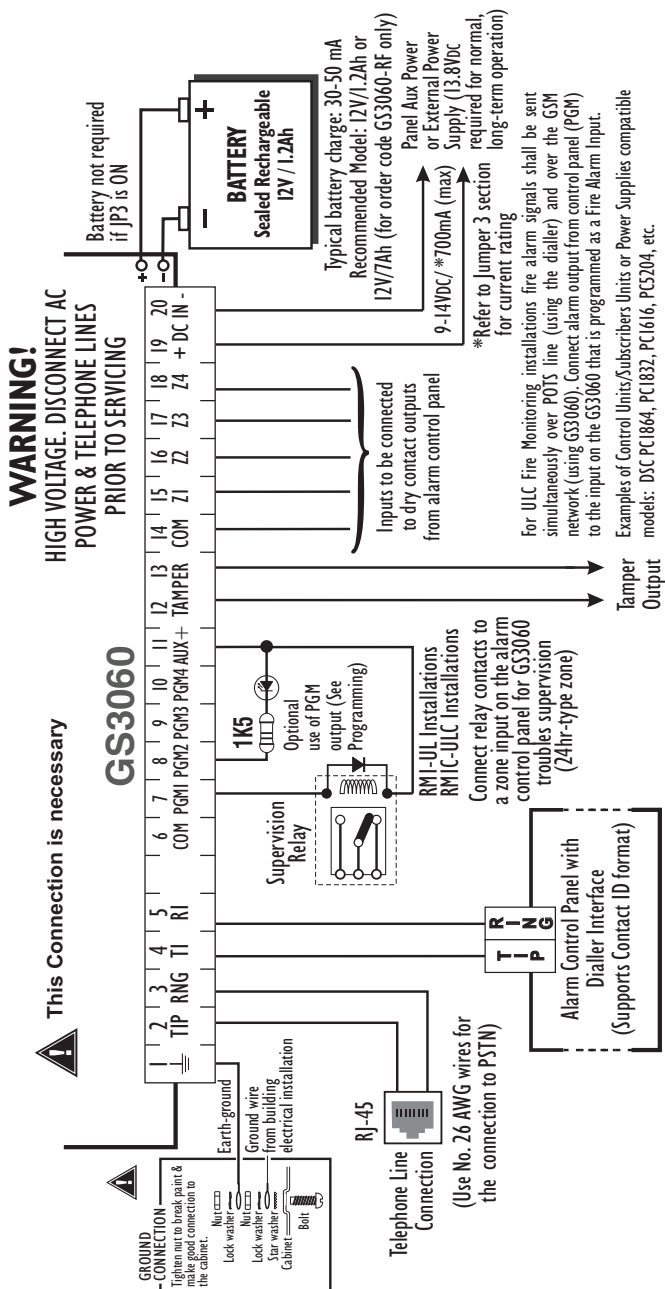
General Information	
Removing/Connecting the antenna	- To remove the antenna from the GS3060, place your thumb on the end of the connector at the modem, then place a screwdriver between the modem and connector. Gently turn the screwdriver away to ‘pop’ out the connector from the modem - To install the antenna, firmly push the the connector into the modem until it ‘snaps’ into place

General Information	
Enrolling a GS3060	- The GS3060 can be enrolled by going through the GVRU voice prompt, and completing the activation of the SIM card, and the initialization of the GS3060 - The GS3060 can also be enrolled using the Connect 24 website (www.connect24.com)
SIM card activation period	A SIM card can take up to 24 hours to be activated by the provider. However, it typically takes less than an hour for the SIM card to be activated
Checking SIM status	- Go to www.connect24.com and login. A search can be performed for a specific account and its current status - SIM status can also be checked through the GVRU

New Features for V3.16	
Critical Shutdown on GS3060 backup battery	- If the GS3060 backup battery is used and is below 10.5VDC, the unit will go into critical shutdown - The critical shutdown state will be displayed by the red light flashing followed by the yellow and two green lights flashing - The lights will continue to flash in this sequence until the battery is charged above 12.4VDC
Swinger Shutdown for Telephone Line Monitor (TLM) transmissions for backup units	- If the GS3060 is configured as a backup, it can send a maximum of 3 TLM troubles and restorals per day - TLM Swinger Shutdown only affects signal transmissions, not the functionality of the GS3060 lights or PGM outputs

GS3060 Wiring Diagrams

Figure 2 - Wiring Diagram



WARNING: Incorrect connections may result in PTC failure or improper operation. Inspect wiring and ensure connections are correct before turning on.

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 Limited wiring. Route wires as indicated in the diagram.

NOTE: For ULC Commercial Fire and Burglary Installation requirements please refer to Figures 5, 6, 7 & 8 and to the ULC Installation Guide P/N 29002157R009.

GS3060 Wiring Diagrams

Figure 3 - Telephone Connection

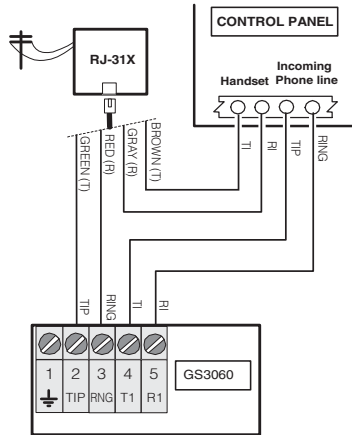
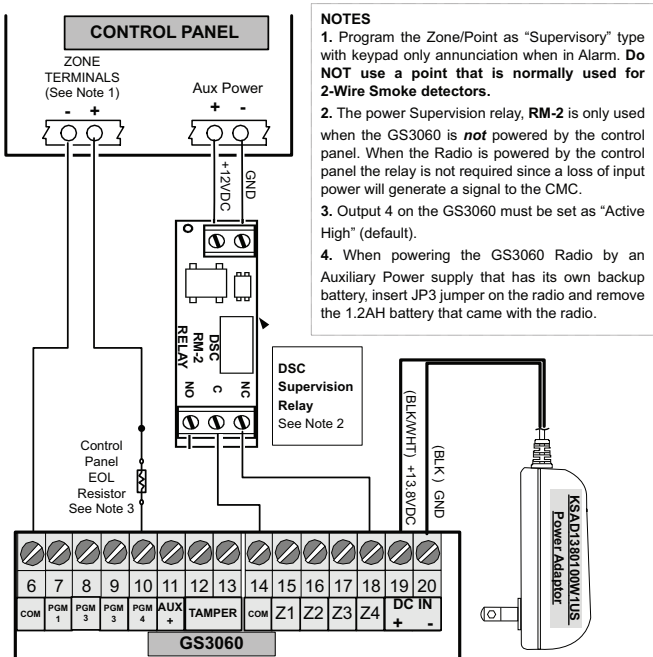


Figure 4 - Power Supply and Supervision Wiring Diagram



The following wiring diagrams (Figures 5 to 8) are examples of ULC Listed Fire Monitoring Installation connections.

GS3060 Wiring Diagrams

Figure 5 - Fire Alarm Control Unit and GSM Transmitter

Wiring Diagram for Fire Alarm Control Unit (with dialler) and GSM Transmitter (Passive Communication System)

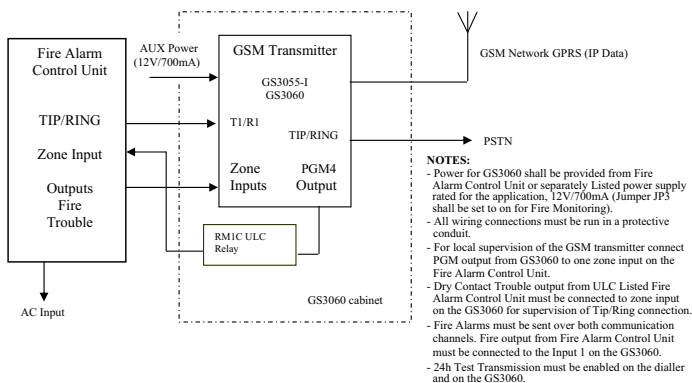
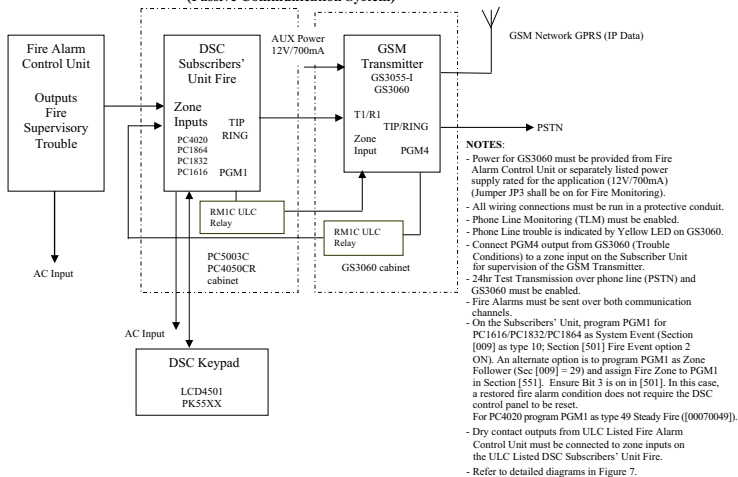


Figure 6 - DSC Subscribers' Unit Fire and GSM Transmitter Mounted in the Same Room

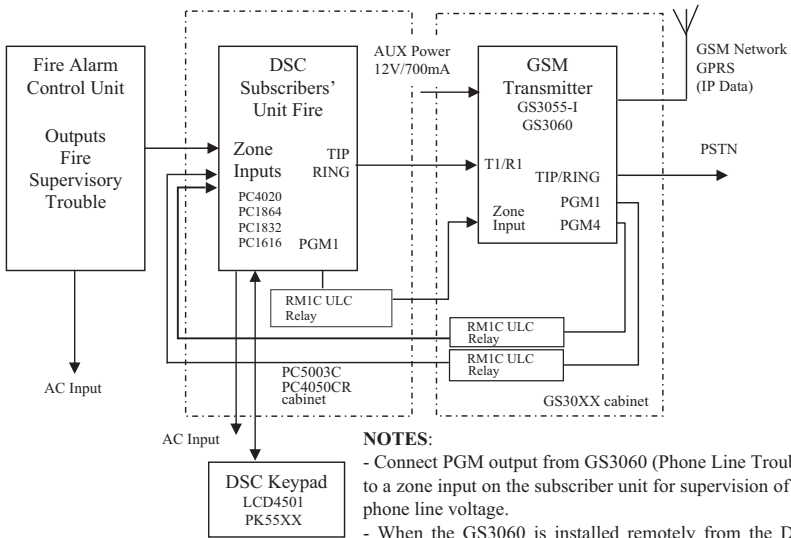
Wiring Diagram for DSC Subscribers' Unit Fire and GSM Transmitter (Passive Communication System)



GS3060 Wiring Diagrams

Figure 7 - DSC Subscribers' Unit Fire and GSM Transmitter Mounted Remotely

Alternate Wiring Diagram for DSC Subscribers' Unit Fire and GSM Transmitter Passive Communication System -Using Phone Line Supervision Relay



NOTES:

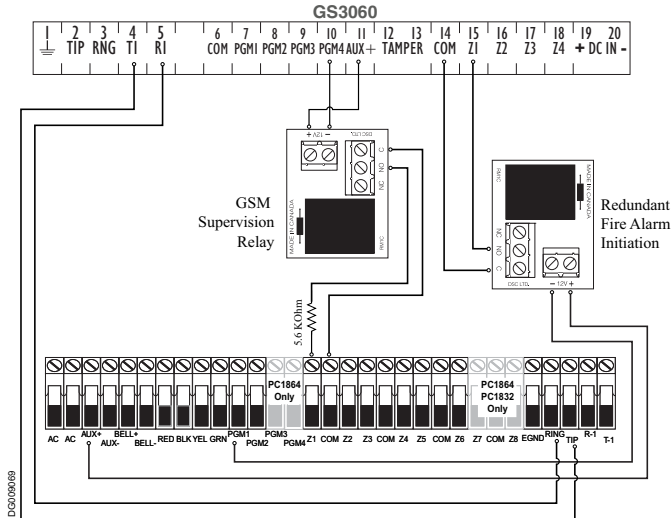
- Connect PGM output from GS3060 (Phone Line Trouble) to a zone input on the subscriber unit for supervision of the phone line voltage.
- When the GS3060 is installed remotely from the DSC Control Panel, it is required to monitor the Phone Line Trouble condition at the keypad by using an additional RM1C Relay.
- Refer to detailed diagrams in Figure 8.

PLEASE NOTE THAT EITHER RM1C ULC OR RM2 RELAYS CAN BE USED FOR ULC INSTALLATIONS

GS3060 Wiring Diagrams

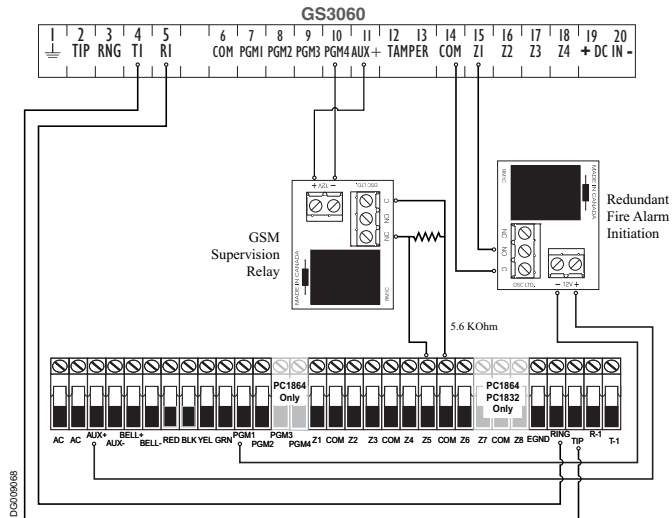
Figure 8 -Connection Details for GSM Supervision Relay and Redundant Fire Alarm Transmission

Connection Details for GSM Supervision Relay & Redundant Fire Alarm Transmission



NOTE: Use EOL resistor in series with N.O. contacts of the relay connected to PGM4

Connection Details for GSM Supervision Relay & Redundant Fire Alarm Transmission

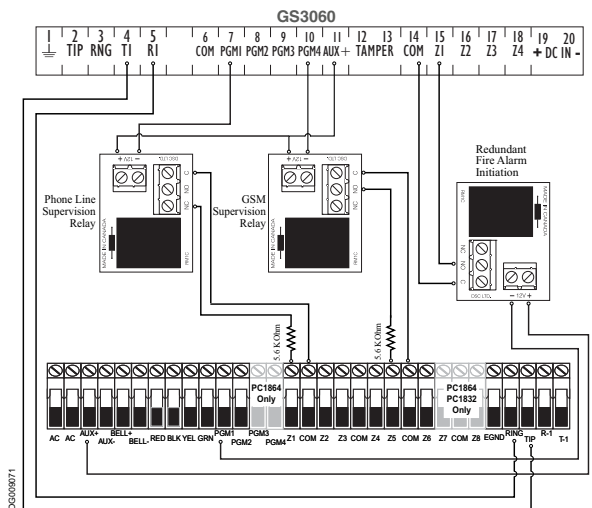


NOTE: Use EOL resistor in parallel with N.C. contacts of the relay connected to PGM4

GS3060 Wiring Diagrams

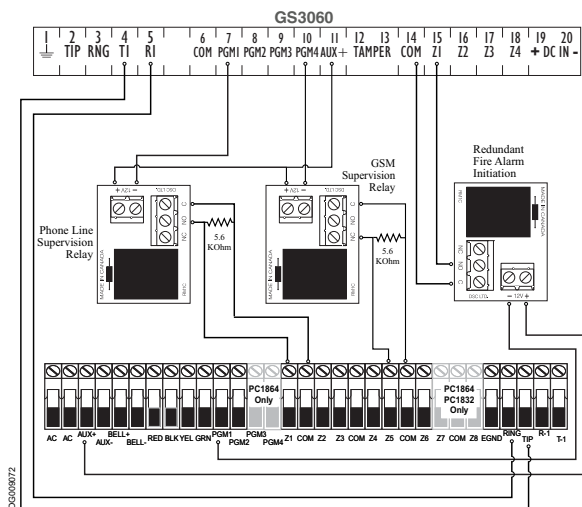
Figure 9 - Connection Details for GSM Supervision Relay, Phone Line Supervision Relay and Redundant Fire Alarm Transmission

Connection Details for GSM Supervision Relay, Phone Line Supervision Relay and Redundant Fire Alarm Transmission



NOTE: Use EOL resistor in series with N.O. contacts of the relay connected to PGM4

Connection Details for GSM Supervision Relay, Phone Line Supervision Relay and Redundant Fire Alarm Transmission



NOTE: Use EOL resistor in parallel with N.C. contacts of the relay connected to PGM4

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WARNING: DSC recommends that the entire system be completely 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 SOFTWARE PRODUCT to fail to perform as expected.

FCC COMPLIANCE STATEMENT

CAUTION: Changes or modifications not expressly approved by Digital Security Controls could void your authority to use this equipment. This equipment generates and uses radio frequency energy and if not installed and used properly, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for Class B device in accordance with the specifications in Subpart "B" of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in any residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to television or radio 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
- Relocate the alarm control with respect to the receiver
- Move the alarm control away from the receiver
- Connect the alarm control into a different outlet so that alarm control and receiver are on different circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the FCC helpful: "How to Identify and Resolve Radio/Television Interference Problems". This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402, Stock # 004-000-00345-4.

IMPORTANT INFORMATION

This equipment complies with Part 68 of the FCC Rules. On the side of this equipment is a label that contains, among other information, the FCC registration number and ringer equivalence number (REN) for this equipment. If requested, this number must be provided to the Telephone Company.

GS3060 Product IdentifierUS: F53M000BGS3060

REN:0.0B

USOC Jack:RJ-31X

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 23, 2001, the REN for this product is part of the product identifier that has the format. US: AAEEQ##TXXXX. The 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

If this equipment GS3060 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 service.

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

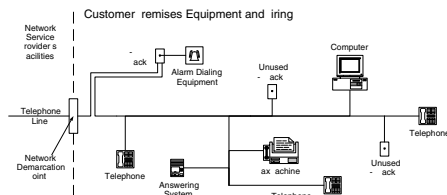
Company may request that you disconnect the equipment until the problem is solved. This equipment is of a type that is not intended to be repaired by the end user.

DSC c/o APL Logistics, 757 Douglas Hill Rd., Lithia Springs, GA 30122

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 seize the telephone line and place a call in an emergency situation. It must be able to do this even if other equipment (telephone, answering system, computer modem, etc.) already has the telephone line in use. To do so, alarm dialling equipment must be connected to a properly installed RJ-31X jack that is electrically in series with and ahead of all other equipment attached to the same telephone line. Proper installation is depicted in the figure below. If you have any questions concerning these instructions, you should consult your telephone company or a qualified installer about installing the RJ-31X jack and alarm dialling equipment for you.



Industry Canada Compliance Statement

This Equipment meets the applicable Industry Canada Terminal Equipment Technical Specifications. This is confirmed by the registration number. The abbreviation, IC, before the registration number signifies that registration was performed based on a Declaration of Conformity indicating that Industry Canada technical specifications were met. It does not imply that Industry Canada approved the equipment. The Ringer Equivalence Number (REN) for this 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.

Cet équipement est conforme aux spécifications techniques applicables aux équipements terminaux d'Industrie Canada. Ceci est confirmé par le numéro d'enregistrement. L'abréviation IC précédant le numéro d'enregistrement signifie que l'enregistrement a été effectué sur la base de la Déclaration de conformité indiquant que le produit est conforme aux spécifications techniques d'Industrie Canada. Ceci n'implique pas que le produit ait été approuvé par Industrie Canada.

Le nombre équivalent de sonneries (REN) de cet appareil terminal est 0.0. Le REN attribué à chaque équipement terminal fournit 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 règlement sur le matériel brouilleur du Canada.

The term "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met.

The reference to the name GS3060 in this manual includes models GS3060 and GS3060L.

WARNING: To satisfy FCC RF exposure requirements for mobile transmitting devices, a separation distance of 20cm or more must be maintained between the antenna of this device and persons during device operation.

Limited Warranty

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. Products 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 Authorisation 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.

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 part of Digital Security Controls. Digital Security Controls neither assumes responsibility for nor authorizes any other person purporting to act on its behalf to modify or to change this warranty, nor to assume for it any other warranty or liability concerning this product.

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

WARNING: Digital Security Controls recommends that the entire system be completely 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.

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.

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