

GC-50

PSTN Up/Download Communicator "Station"

Advanced remote guard management, Digital Modem Communicator, the "Station" works with Rosslare's GC-02 & GC-01 units, and GS-02 Call Center PC software to provide an innovative solution to Guard Patrol monitoring and management systems and centers.

GENERAL DESCRIPTION

The GC-50 DigiTool™ "Station" is Rosslare's optimized hardware solution for managing a distributed DigiTool™ guard patrol monitoring system on a large geographic and data quantity scale application.

Each GC-50 supports one GC-02 DigiTool™ "Base" RS232 Serial Docking Base, which is mounted on top of the unit and locked into place by a vertical screw. Once the GC-02 is connected to the GC-50, then the set can be installed in a remote location, which is connected to DC power and to the PSTN (Public Switching Telephone Network) system for remote communications.

Monitored locations can be geographically distributed and the system can have multiple remotely located stations that serve the regional zones, or mounted within the specific security client's facility. The system also supports local, or remotely located guards, readers, and location tags which are all administered and controlled with the advanced software application, the GS-02 DigiTool™ Call Center for PC.



Figure 1. GC-50 "Station".

MAIN FEATURES

Custom Security Codes for Each Unit: The GC-50 are programmed with a high security codes and facility codes which can be selected (uniquely available for large customers) by the factory order. These security codes determine which PC may have access to the local or remote hardware, totally preventing any unauthorized Serial or PSTN connections. Even if another licensed PC is attempting to connect there.

Internal Real Time Calendar/Clock with Battery Backup: The GC-50 has a RTC (Real time Clock) chip which maintains quartz clock and date very accurately. When the DC input power is disconnected, this clock can maintain operation for up to 6 months.

Advanced Microprocessor electronics: With "Intel" technology micro processor as the heart of the GC-50, the unit has reliability of a truly tested and world renowned processor.

Large Embedded Internal Memory: The internal memory of 1 Mega Bytes, SRAM (Static Ram) the GC-50 can download over 32 full readers (256,000 time-stamped events). This memory will retain downloaded events for up to 6 months when the DC input power is disconnected.

Unique Industrial Design for Desktop: The GC-50 reduces the number of cables significantly and saves desk space compared to other systems with an external 3rd-Party modem. Attractive design concept integrates all components into one compact set.

User friendly operation: The GC-50 operation is as easy as pressing a single button !



Figure 3. GC-50 to "Base" connection, and Indications.

The system consisting of GC-50 and GS-02 is compatible with Rosslare's existing GC-02 "Base" and GC-01 "Reader" which means that it can support any type of expansion plans from customers that currently have the serial connection only units deployed in the field.

For in the field utility, the GC-50 provides the simplest, user friendly operation, with two icon based buttons, an internal buzzer for audio indications, and two bi-colored LEDs for visual indication. Therefore requiring no technical knowledge from the guards in the field, and can be taught with straight forward instructions.

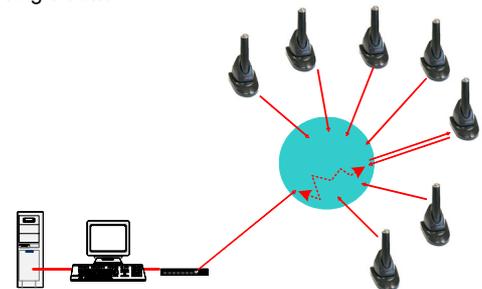


Figure 2. GC-50 Network.

GC-50

PSTN Up/Download Communicator "Station"

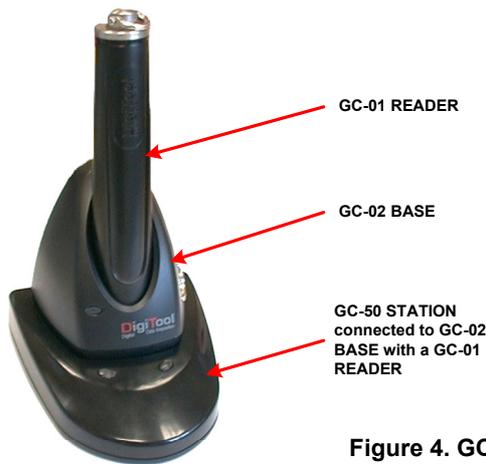
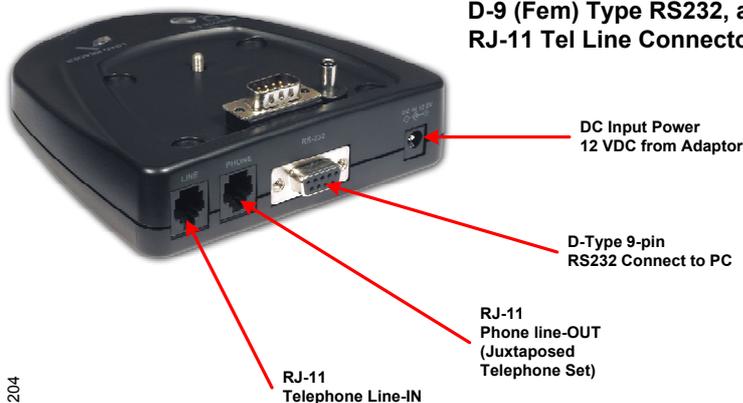


Figure 4. GC-50 with the Base and Reader.

VERSATILE COMMUNICATION SETTINGS

- 1. Up/Download destination.**
The GC-50 may be set to send Data to local PC or to remote PC via Modem
- 2. Dial tone mode.**
Dial tone detect before dial or Pause for 2 seconds before dial.
- 3. PABX Code.**
PABX Code Enable or Disable
- 4. Tone/Pulse select**
Use Tone to dial through the Modem or Pulse to dial.
- 5. Answering machine Defeat mode:**
May be enabled or disabled.
- 6. Callback enable/disable**
- 7. Callback phone number**
Up to 16 digits
- 8. Number of Callback attempts.**
From 1 to 16
- 9. Number of Rings to Answer incoming calls**
From 1 to 16
- 10. PABX access code**
Four Digits and * for a 2 second pause.
- 11. Scheduled Test calls settings**
 - a. Scheduled calls enable/disable
 - b. Scheduled calls every 12 hours
 - c. Scheduled calls daily
 - d. Scheduled calls weekly
 - e. Scheduled calls monthly
 - f. Scheduled calls Initiation time (hh: mm)
 - g. Scheduled calls Initiation day of the week

Figure 5. GC-50's D-9 (Fem) Type RS232, and RJ-11 Tel Line Connectors.



SPECIFICATIONS

Input Voltage:

DC 9-12 VDC input via barrel jack, from an AC/DC transformer or a regulated dc power source. - Use the provided AC/DC adapter, which is country specific and has all local standards approvals.



Telephone Line Interface:

Connect one side of the standard RJ-11 telephone cable to the GC-50 (LINE) socket, on the back of the unit, and the other side to the wall line socket.

LINE

DTMF Telephone Connection:

Connect a normal DTMF telephone to the RJ-11 socket in the back of the GC-50 called (PHONE). This will enable the GC-50 to share the line with a touch tone phone. This phone must be strictly for emergency calls only.

PHONE

RS232 Serial PC Connection:

The unit offers local connection of GC-50 directly to the PC. Connect the male side of a D-Type serial cable (9-PIN) to the GC-50, and the female side to a free serial port of the PC.

RS-232

Operating Environment:

The GC-50 is an indoor device, which must be protected from moisture or water.

Memory Capacity:

The GC-50 has 1 Mega Bytes of internal memory capable of storing up to 256,000 events.

Data Transfer Rate:

Between GC-50 and GC-02 - 9600 baud RS232, and between PC and GC-50 - 9600 baud for both RS232, and modem connections.

Memory and Clock Backup Battery:

3.6 Volt DC Rechargeable : NiMH button cell, 200 mAh

Buzzer and LED Operation:

Cadence (Stand By Mode) : No Tone, LEDs off.

Downloading Reader: 600Hz Tone 0.3s every 1s / Solid Green LED

Successful Command: 1200Hz Tone for 5s / Flash Green LED

Fail Command: 1200Hz Tone 0.5s on/0.5s off for 5s / Flash Red LED

Modes for Connection to the PC:

- 1) PC Operator initiated dial-up connection to remote GC-50
- 2) PC Operator initiated Call-Back, dial connection to remote GC-50
- 3) Scheduled Automatic PC initiated dial-up/upload to remote GC-50
- 4) Automatic Remote Schedule dial-in received from GC-50

Call-back Telephony Function:

For a secure PSTN connection, and as a cost reduction for the Central PC telephone fees, the GC-50 will hang up and dial-in to the PC Call Center after a coded handshake and call-back request.

Answering Machine Defeat Telephony Function:

GC-50 shares the same line as a fax machine, or answering machine. This feature will enable the GC-50 to pickup on the first ring, after receiving a call with a single ring if normally the number of rings to pickup is programmed to allow the fax machine to pick up the line first.

Operating Temperature & Humidity:

- 20 C to +50 C / [- 4 F to + 122 F] - & - Up to 95% Non-Condensing

Current Consumption:

Offline Mode = 30 mA / Online Mode = 150 mA (Max)

Size:

150mm(L)x120mm(W)x30mm(D) --- [5.91 " x 2.5 " x 2.2 "]

Weight:

150 grams (66.2 oz)