DigiTool™
Digital Data Acquisition

GC-01
Guard Patrol Touring Data Acquisition Reader

Rosslare's GC-01 is an advanced waterproof, rugged and full featured rechargeable handheld reader for iButton metallic code keys. GC-01 is a main component of Rosslare's **DigiTool**™ family of Guard Patrol Touring, and Digital Data Acquisition systems.

GENERAL DESCRIPTION

Rosslare's ORIGINAL **DigiTool**™ GC-01 "Reader" is special hand-held iButton reader designed for trouble free Guard Patrol Touring applications. (see Figure 1.)

The GC-01 can store 8000 reads with timestamp data in non-volatile internal memory. The "Reader" is highly integrated with the other **DigiTool**™ family of Guard Patrol products, including the GC-02 RS-232 PC "Base", GC-50 PSTN "Station" modem communicator, and GC-03 DC "Charger" units. (See figure 2. for the GCK-01 Starter Kit)

The whole system enables the guard touring administration of guards, tours, location tags, user and events tags. Raw Data is downloaded to either the Reports Light (free PC software), or the advanced Call Center remote monitoring software, to generate reports and data analysis..

The reader is encapsulated in a rugged, thick poly-carbonate, and special carbon hardened stainless steel construction, ensuring it's light weight and durability. The unit is waterproof, and able to withstand being placed under 1 meter deep water without water damage.

For ultimate power on the go, **DigiTool**™ GC-01 has an internal Lithium-Ion rechargeable battery with 1800 mAh, which can provide over 300,000 reads or 6 months use before a new recharge cycle.

Figure 1. DigiTool GC-01 Reader

Figure 2. DigiTool GCK-01 Starter Kit

The **DigiTool**™ GCK-01 starter kit lets you immediately protect and get into the Data Storage and reports Software "Reports Lite". GC-K01 includes CD-Rom Reports Lite software, 1 Data Cable, 1 AC/DC adaptor, 1 GC-02 "Base", 1 GA-06 Leather Belt Holster, 12 Location Tags GA-01, 1 GC-01 Readers, and a 10-Event Wallet GA-01.

All the units come in one consolidated box with the installation and operation manual.

MAIN FEATURES

> The **DigiTool**™ GC-01 is made for the human with a unique assortment of human interface features;
   a) Built-in 360° LED array for increased visibility of valid iButton reads,
   b) Built-in vibrating motor for tactile read confirmation,
   c) Built-in beeper for audio read confirmation.

> The **DigiTool**™ GC-01 Alerts user for Low Battery and Memory Full by means of vibration, visual, and audio beeps.

> Highly rugged and waterproof The **DigiTool**™ GC-01 withstands IP-65 level tests, means less breakdowns and more up-time without visiting the repair shop.

> Encapsulated in both thick poly-carbonate, and carbon hardened stainless steel construction, ensuring it's light weight portability and durability.

> High Capacity 8000 event non volatile event memory.

> High Capacity Rechargeable internal Lithium-Ion battery with 1800 mAh,

> No User serviceable parts, with tamper evident seal, and microwave evident label is optional.

ROSSLARE®
SECURITY PRODUCTS

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TÜV CERT
DIN EN ISO 9001:2000
Certificate: 01 100 6925

GC-01
Guard Patrol Touring Data Acquisition Reader

PRODUCT DETAILS

Carbon Hardened Stainless Steel, Rotating Hook. used to hang the **DigiTool**™ to a strap and wall hook.

Internal Ultra High Capacity Rechargeable Lithium-Ion Battery 1800 mAh, and Power Charge Control

Non-Volatile Memory, Advanced Real-Time Micro Controller

Vibrating Motor for Tactile Sense

Large Light pipe surrounds the main body for increased 360 Degree viewing of a positive read. Fitted with multiple ultra bright L.E.D's for maximum visibility.

The ORIGINAL DigiTool Logo and Brand. (Label Space) Tough and Rugged - Thick Polycarbonate construction is sealed from dust, dirt and water with silicon grommets for good resistance to applications in a harsh environment.

Built-in-sounder beeps every valid read of an iButton tag for audio verification

Reading head located in the front reads the location tags, event book tags, and for charging the internal lithium-ion battery

Figure 3. GC-01 Reader - Details

Reader Head with Illumination

LOCATION TAG

Figure 4. Location Tag and Lit Read Head

GC-01 Docked in the Data and Charging Base

Charge Indicator LED

Figure 5. GC-01 Reader docked in the GC-02 Data & Charging Base

PRODUCT SPECIFICATIONS

Operating Voltage and Current:
Minimum 3.0V and 0.006 mA
Max. 3.6V, 0.021 mA
Very low power consumption

Uploading and Downloading Speed:
9600 Baud Speed
High Speed Downloads and Uploads to PC

Time and Date Stamp Memory:
Real Time clock inside saves Date and Time
Internal Clock Synchronizes with the PC Time

Number of Reads:
Stores up to 5000 reads and Time stamps
Large Internal Memory

Battery Discharging Time:
Approx. 250,000 reads on a full battery charge
Internal Lithium-ion battery of 1800 mAh

Battery Charging Time:
Battery Charges in 3 hours from empty to full
Internal Lithium-ion battery of 1800 mAh

Buzzer Sounder Indication:
Internal sounder for Audio Verification
Audible Data Read Validation

L.E.D. Indication:
4 Ultra bright LED's Visual read Validation
360 Degree LED Viewing Angle Light-pipe

Water Resistance:
Housing is sealed from Water by grommets
Water, Dust and Dirt resistant design

Data Read Speed:
0.001 seconds per read
Provides a quick read of a Location Tag or Event button

Construction Materials:
Polycarbonate and Stainless Steel Housing
Tough and Rugged

International Safety and EMC:
Complies with international Safety and Emissions Regulations
For EUROPE, USA, MIDDLE EAST, and ASIA PACIFIC

Operating Temperature:
Minimum   Maximum
-32 C / 0 F   90 C / 100 F
Applicable to most applications

Mechanical Dimensions:
175 mm Length
33 mm Diameter
Small Enough to fit in a pocket or hung on the belt

Unit Weight:
225 grams
Light enough to be carried around for daily use

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