



GR-251
High Performance
Multi-Reader
User Manual

Introduction

The GR-251 High Performance Multi-Reader is designed to read Trovan, ISO FDX-B, Destron/FECAVA/HomeAgain, and AVID RFID (radio frequency identification) transponders.

Prior to first use, you should fully charge the battery. Remove the dust cap from the circular connector at the rear of the reader, attach the battery charger's connector to the reader, and plug the battery charger into an electrical outlet. The LED will light to indicate charging is in progress. If the LED doesn't light, check your power source and try plugging the battery charger into a different outlet.



The FW1199 Charger will shut off the charging process after approximately 14 hours and begin trickle charging the battery. At that time, the LED will blink to indicate trickle charging. The SmartCharger will charge the battery in 1 hour or less vs. 14 hours for the FW1199. The LED will be green to indicate trickle charging. Once the reader is fully charged, unplug the charger from the outlet, disconnect the reader from the charger, & replace the dust cap. Your reader is now ready for use.

A fully charged reader will read approximately 3,000 transponders (average scan time of 1-2 seconds) before the battery needs to be recharged. To ensure maximum reading performance, the reader should be charged once a week, even if 3,000 scans haven't been performed. If the reader hasn't been used for about a month, the battery may be low. Therefore, it is recommended the reader be charged at least once a month, even if stored.

The hole in the rear of the handle can be used to fasten a lanyard or wrist strap to the reader.

Reading a Transponder

To read a transponder, depress the trigger and bring the front face of the reader into close proximity of the transponder to be scanned.

The red LED will flash rapidly, indicating that reading is in process. The LCD will display READING.....

READING

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If a transponder is detected, the green LED will illuminate and a capture tone will sound. The transponder's nine or ten digit ID number will remain on the LCD while the trigger is depressed. Once the trigger is no longer depressed, the ID number will be displayed for about 30 seconds. The LCD will display one of these messages, depending on the transponder type that was read.

To initiate another reading, depress the trigger button again.

ID# 12-3456-789A
800-InfoPet

ID# 12-3456-7890
ISO Anim C/M 123

ID# 12-3456-789A
Registry Phone #

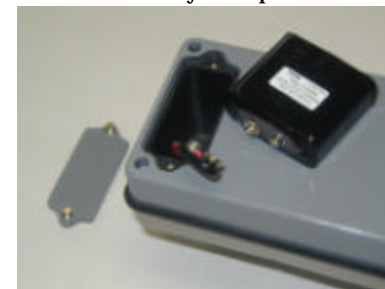
AVID 123-456-789
800-336-2843

Replacing the Battery

Under normal use and recharging, the battery will provide years of service (500-1000 recharges). To replace it, remove the battery compartment cover on the bottom of the reader by loosening the two screws (but do not remove the screws from the cover),

CAUTION: DO NOT replace the 12 volt battery with a 9 volt battery. The reader will not operate with a 9 volt battery.

unsnap the battery connector, and attach it to the new battery. The battery is a 12 volt nickel metal hydride (NiMH) battery. Although the battery connector is the same as a 9 volt battery, it is vital that you replace the battery with an authorized 12 volt replacement, NOT a 9 volt battery.



Advanced Reader Functions

Note: An optional interface cable must be purchased to connect the reader to a computer via the RS-232 interface.

The GR-251 Hand Held Multi-Reader has additional capabilities that are implemented via its RS-232 interface. Up to 8,128 transponder ID number readings, automatically stamped with date & time, can be stored in memory. Also, the following parameters can be set via the RS-232 interface:

- Date, time, and day of the week

- Communications parameters (BAUD rate, etc.)
- Save and Seek modes

Troubleshooting

The Reader Doesn't Read

Symptoms: When the trigger is depressed, the red & green LEDs do not illuminate, and the LCD is blank. There is no response from the reader.

Response: Recharge or replace battery. The reader will not operate until the battery is recharged or replaced with a fully charged 12 volt battery.

The Reader Displays an Error Message on the LCD

* Low Battery *
Please RECHARGE

The battery voltage is below approximately 11.8 volts and must be recharged or replaced. The reader will continue functioning until the battery is fully discharged, although the reading performance may be diminished.

Transmitter
Fault => SERVICE

The reader has experienced a hardware fault and must be returned for repair.

SERVICE—Replace
Lithium Battery

The real time clock's lithium battery must be replaced or unpredictable reader operation may occur. The reader must be returned for repair.

Technical Specifications

Dimensions:

Length: 11 3/4 inches (30 cm)

Width: 7 1/8 inches (18 cm)

Height: 4 1/8 inches (10.5 cm)

Weight: 2.85 pounds (1.3 kg) with battery pack

Display: LCD (2 lines x 16 characters)

Red LED – Flashes to indicate reading in process

Green LED – Illuminates when transponder is read

Memory Storage Capacity: 8,128 readings with date & time

Computer Interface: RS-232, 9600 BAUD (default BAUD rate)

Power: 12 volt rechargeable NiMH battery

Environmental: Water, salt air, & weather resistant

Caution: Changes or modifications not expressly approved by the party responsible for FCC compliance could void the user's authority to operate this equipment.