

GLE/HGIG-100

Handheld GPS synchronized IRIG B time code Generator

Applications

- Time synchronization of stand-alone data acquisition equipment.

Main Features

- Twelve channel GPS L1 receiver
- IRIG B time code generator.
- GPS/UTC time synchronization.
- 1 PPS output.
- NMEA 0183 output, including GPS/UTC Time & Position.
- Internal rechargeable LiPo battery cell.

Overview

GLE/HGIG-100 is a compact and robust GPS/UTC synchronized timecode generator, which provides IRIG B122, 1 PPS signal and NMEA 0183 output.

It is designed to accurately synchronize the internal time of standalone and mobile data

acquisition equipment.

The active GPS antenna, installed on the top panel, may be disconnected to use an external one.

If no GPS signal is received, gle/HGIG-100 switches to the internal clock and continues to generate the time without any



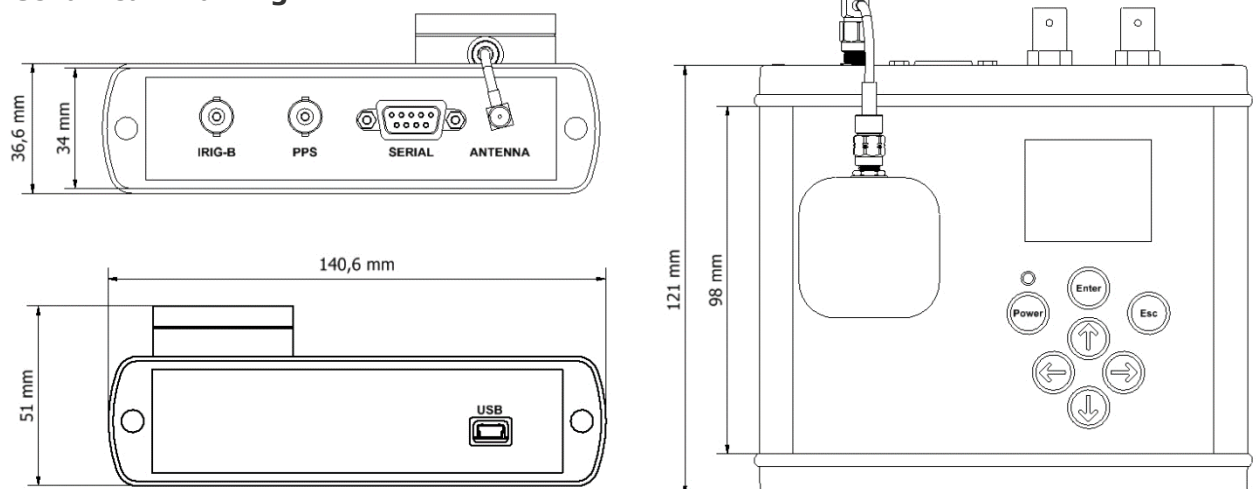
significant change in the IRIG-B timecode and in the serial NMEA data stream. The unit is equipped of a 2000mAh LiPo battery.

The internal battery charger works with a standard +5V USB connection to PC or with the supplied AC/DC USB wall adapter.

Main Characteristics

IRIG-B Output Format	B122; 1kHz AM Modulated
IRIG-B Output Level	2.1Vp-p (Mark), 0.7Vp-p (Space)
IRIG-B Connector Type	BNC, 50 Ohm Impedance
1 PPS Signal Level	>2.0V (Typ.) @ 50 Ohm load
1 PPS Pulse Width	High for 2ms
1 PPS Connector Type	BNC, 50 Ohm Impedance
NMEA 0183 RS 232 Output	9600 Baud, 8 bit, No Parity, \$GPGGA Message
NMEA 0183 Connector Type	DSUB 9 Pin Socket
GPS Antenna	Active Type
GPS Connector	SMA Socket
Timing Accuracy	+/-0.5 PPM (when not locked to GPS / over the entire temp. range)
Nominal battery run time	5 hours
Nominal battery charge time	5 hours (unit switched off)
Operating Temperature Range	-10 to +55 °C (During battery charging: 0 to +40 °C)
Dimensions (L x D x H)	140 x 120 x 51 mm (including GPS antenna, excluding connectors)

Mechanical Drawing



Due to continuous developments, specifications are subject to change without prior notice. This product is not intended for applications whose its failure to perform can be expected to cause damages to properties and/or persons and/or injury to human life.

GreenLake Engineering Srl
 the engineering branch of Instrumentation Devices
 Via Acquanera, 29 - 22100 COMO - Italy
 +39.031.521.076 - info@greenlake-eng.com

