GSMD-GPS

Module for acquiring Metal Detector and GPS signals

Main Features

- Compatible with MIL-D1/DS and CMD Metal Detectors.
- Plugs directly to the GSMD Headphone Connector.
- Powered by the GSMD, no external battery required.
- No consumption when GSMD is turned off.
- Low Power Consumption.
- · Embedded 32-bit microcomputer.
- 72-channel GPS /GLONASS/Beidou high sensitivity receiver.
- Up to 30 h data recording.
- Status indication by multi-color LED.
- High speed data download to a PC.
- Data integrity is assured by certification.
- Water resistant housing.



General description

GSMD-GPS is a high performance compact accessory of compatible CEIA GSMDs designed to receive and record GPS data.

The device allows the operator to record the Metal Detector response and the GPS information (Date, Time, Latitude, Longitude) in real time during the search operations.

In addition, the module allows the operator to mark significant points.

Data are stored into a non-volatile memory at a rate of one event per second.

A connecting cable and a software utility are provided for downloading the memory content to a PC. Data are saved in .kml format (Google Earth compatible) and in .csv format.

LED indications

Indications provided by multi-color LED.

| Blinking BLUE | Waiting for a GPS valid signal | Status LED |
|----------------------|---------------------------------|------------|
| Blinking GREEN | GPS valid signal fixed | |
| Solid GREEN | Recording in progress | |
| Blinking RED | Data memory almost full | |
| | (memory capacity is reset after | |
| | a data download to the PC) | |
| Solid RED | Fault | Push but |
| Short GREEN blinking | Tag of a significant point | start/stop |
| | | |



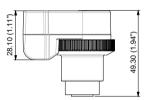
Push button for recording start/stop and for tagging a significant point

Format of .csv data

The file .csv (comma separated value) generated contains a line for each event stored. The following information is recorded:

Technical specifications

| Operating Temperature | -46°C to 70°C | |
|-----------------------------|------------------------------|--|
| Storage Temperature | -55°C to 85°C | |
| Power Consumption | GSMD off: 0mA | |
| | GSMD on: 65mA @3V | |
| Dimensions | 52.5mm x 37mm x 49.3 mm | |
| Weight | 60g | |
| Protection Degree (IEC 529) | IP68 (down to 2 m) | |
| GPS Receiver | 72-channel GPS/QZSS, | |
| Technical Features | GLONASS & BeiDou receiver | |
| | Accuracy: ±1,5m (typical); | |
| | ± 1m (typical, with SBAS | |
| | correction) | |
| | Sensitivity in navigation: - | |
| | 166dBm | |
| | Time to first Fix: 40 sec | |
| Memory storage capacity | Up to approximately 30 hours | |
| | of recording | |





Dimensions in mm (inches)

Part List

- GSMD-GPS
- USB cable for connecting the device to a PC
- Instruction manual



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