

GSMD-GPS

Module for acquiring Metal Detector and GPS signals

Main Features

- Compatible with MIL-D1/DS Metal Detector.
- 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 (MIL-D1/DS) 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.

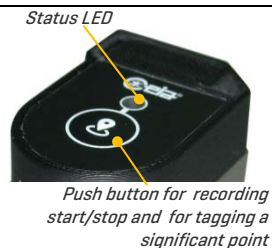
Data are stored into a non-volatile memory at a rate of one event per second.

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
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
Short GREEN blinking	Tag of a significant point



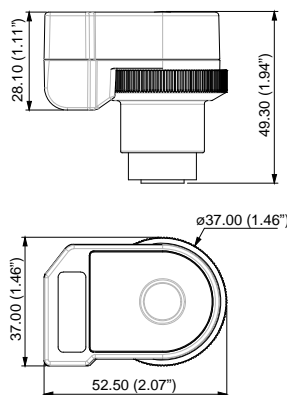
Format of .csv data

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

*<Date, Time, Fix, Latitude, Longitude, Operator Tag,
Detector Status, Detector Signal Amplitude, Detector Sensitivity Setting >*

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, GLONASS & BeiDou receiver
Technical Features	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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