



Gate FM11-S

GSM/GNSS mobile tracker

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Worldwide location identification | 
Solar power | 
Movement tracking | 
Affordable | 
Eco Friendly |
| 
Well designed reliable electronics | 
Extra security - ignition relay | 
Long battery life | 
Temperature measurements and control | 
Waterproof |
| 
Worldwide GSM network compatible | 
Digital I/O | 
Internal backup battery | 
Power Line Communication (PLC) with trailers | 
Trailer identification |
| 
No installation | 
Marine transport | 
Road transport | 
Rail transport | 
Dust protection |

Functionality

GATE-11-S – is a simple and reliable tracking device, designed for various outdoor climatic conditions. Perfect for container, parcel or trailer tracking and monitoring. Device transmits tracker's GPS position and data via 2G/3G/4G GSM network. GATE-11-S has a rugged, outdoor-adapted housing, fully compliant with IP69K. Integrated IP69 vents provide dust and liquid protection while equalizing pressure.

The device has integrated GNSS and GSM antennas and has internal memory for data logging if the data can not be sent over the GSM network immediately.

Each device is equipped with Lithium-polymer (LiPo) 6000mAh battery, which is used in case of vehicles' power source failure or if not being present at all. One of the main features of the device is the solar panel producing independent power supply, virtually reducing device's power consumption to zero.

Installation

GATE-11-S has magnetic pads for easy installation on any metal surface.

Flexible configuration allows for customer to choose frequency of periodical data to be transmitted.

Device can be accessed remotely at any point in time for the latest coordinates and status.

Technical Specifications

GSM/GPRS	Quad band GSM, GPRS Uplink 40kbps / Downlink 80kbps Support command list over SMS/GPRS Support FW/SW update FOTA/ROTA
GNSS module	GPS / GLONASS / BeiDou /Galileo support, 72-channel -167 dBm navigation sensitivity, Anti jamming (Active CW detection and removal)
Power supply	Rechargeable LiPo battery 6Ah Operation mode average 0,4W Deep sleep mode <1,5 mW (deep sleep mode over one and a half years) Idle mode <3.8 mW (eight more months)
Accelerometer	High precision, 16 bit resolution, 3 axis digital accelerometer for motion reporting
Memory	2 MB Flash memory (about 15 000 position logs)
Interface	Internal SIM holder Internal microUSB 2.0 for charging and FW update
Environmental specifications	Operating temperature -30° to 65°C IP68 ingress protection waterproof body
Dimension	150 mm 65 mm 40 mm

Designed and manufactured by:



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