

# GM-38

## GPS Mobile Locator

### Features

- Marine GPS navigation
- Avionics, INS and NAV GPS interface
- Industrial S.C.A.D.A. equipments for synchronization
- AVL solution for GPS/antenna
- Fleet Management Systems GPS Signal source



#### Performance

Receiver: 8 channels  
 Receiver frequency: 1575.42MHz, C/A code  
 Antenna LNA: Gain: 23 ±2dB, NF: 2.0max  
 Acquisition time: 18 second typical (warm start)  
 Position accuracy: 15m or 50 feet RMS  
 Velocity accuracy: 0.1 knots RMS steady state  
 Update rate: 1 second continuous

#### Performance

Communication: RS-232 (standard)  
 RS-422 (optional)  
 Output protocol: NMEA0183  
 Standard output: GPGGA, GPZDA, GPVTG, GPGSV  
 Custom outputs: GPGLL, GPRMC, GPGSA

#### Data Cable

Multiconductor shielded 5 meter cable with 9 pin DB9 receptacle with strain relief

#### Communication

Protocol: NMEA 0183 at 4800 baud rate  
 Signal level: RS232 (standard), RS422 (optional)

#### Power

Source: 8V to 35V DC, with reverse protection  
 Voltage regulator: built in switching protection  
 Consumption: 0.9W maximum  
 EMI Filter: rejects power line interface

#### Power Cable

Ciga-lighter: ciga-lighter from a vehicle (part # SM-38/12V)  
 PS2 connector: 12V DC source with built-in regulator like the notebook PC (part # SM-38/PS2)

#### Physical

Size: 76mm x 48mm x 30mm  
 Weight: 0.3lb (136g)  
 Enclosure: High impact, corrosion-proof PC (polycarbonate) resin  
 Mounting (standard): Magnet base and screw mount

#### Environmental

Operating temp: -30°C to 75°C  
 Storage: -40°C to 85°C  
 Humidity: 95% non-condensing

### Ordering Information

Part Number	Description
GM-38/12V	GPS Mobile Locator with Ciga-Lighter adapter power cable
GM-38/PS2	GPS Mobile Locator with PS/2 power cable