



Press " 62 " for automatically enable dial back when GPS location speed mode than 20 km under moving sensor activated mode.

Press " 61 " for manually enable dial back when GPS location speed mode than 20 km under moving sensor activated mode (pre-setted)

PS: (under the activate moving sensor trigger mode 52)

Dial back testing, press " 71 " dial back the 1, 2, 3 sets numbers.

Press " 8 " for in car bugging

Under none encryption protection mode, press " 8 " directly without press the pass code.

Press " 9 " from leaving mode back to tracking mode or not pressing any keys in 10 seconds to enable from leaving mode back to tracking mode.

After anti-thief dial back mode, take the call and dial " \* \* \* " to disable the dial back

**NOTE: Please press at 2 seconds intervals in each button**

### **SMS Example:**

SMS Short message

ALARM = Anti-thief trigger dial back

SENSOR = moving sensor trigger dial back

SOS = ask for help dial back

\*V, N, 23" 51' 15.6, E, 120" 38' 09.6, 020. 3, 359. 9\*

V = GPS last location

A = GPS current location

N, 23" 51' 15.6 = North 23" 51' 15.6

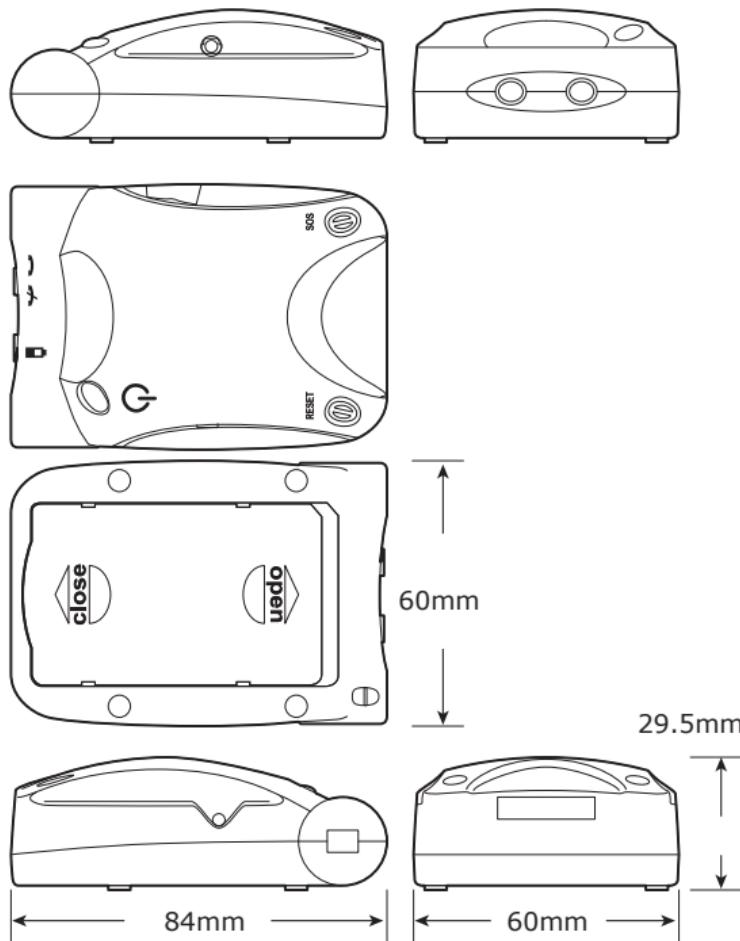
E, 120" 38' 09.6 = East 120" 38' 09.6

020.3 = Speed (sea mile)

359.9 = Direction



### Dimension:





## GPS Receiver Specifications

Chipset	SiRF Star III
Protocol	NMEA0183 GGA, GSA, GSV, RMC, GLL
Baud Rate	4800, N, 8, 1
Max. Update Rate	1 Hz
Datum	WGS84
Channel	20 channel
Frequency	L1, 1575.42MHz
Hot Start	8 sec. Average
Warm Start	38 sec. Average
Cold Start	48 sec. Average
Reacquisition Time	100 ms
Position Accuracy	15m 2D RMS, SA off
Maximum Altitude	18,000m
Maximum velocity	515m/s
Voltage	DC 3.3V+-10%
Power consumption	90mA continuous mode
Antenna Type	Built-in active antenna
External Antenna	MMCX (Optional)
Connector	
Dimension	84 (L) x 60 (W) x 29.5 (H)mm
LED Indicator	3D Positioning (blinking) or Searching GPS (on)



## GSM module features

Feature	Implementation
Power saving	Minimizes power consumption in SLEEP mode to 3mA
Charging	Supports charging control for Li-Ion battery
Frequency bands	<ul style="list-style-type: none"> <li>MC55 Tri-band: EGSM 900, GSM 1800, GSM 1900</li> <li>Compliant to GSM Phase 2/2+</li> </ul>
GSM Class	Small MS
Transmit power	<ul style="list-style-type: none"> <li>Class 4 (2W) at EGSM900 and GSM850</li> <li>Class 1 (1W) at GSM1800 and GSM1900</li> </ul>
GPRS Connectivity	<ul style="list-style-type: none"> <li>GPRS multi-slot class 10</li> <li>GPRS mobile station class B</li> </ul>
Temperature range	<ul style="list-style-type: none"> <li>Normal operation: -20°C to +55°C</li> <li>Restricted operation: -25°C to -20°C &amp; +55°C to +70°C</li> </ul>
Temperature control and auto switch-off	<ul style="list-style-type: none"> <li>Constant temperature control prevents damage to MC55/56 when the specified temperature is exceeded.</li> <li>When an emergency call is in progress the automatic temperature shutdown functionality is deactivated.</li> </ul>
DATA	<p>GPRS:</p> <ul style="list-style-type: none"> <li>GPRS data downlink transfer: max. 85.6 kbps</li> <li>GPRS data uplink transfer: max. 42.8 kbps</li> <li>Coding scheme: CS-1, CS-2, CS-3 and CS-4</li> <li>Supports the two protocols PAP (Password Authentication Protocol) and CHAP (Challenge Handshake Authentication Protocol) commonly used for PPP connections.</li> <li>Support of Packet Switched Broadcast Control Channel (PBCCH) allows you to benefit from enhanced GPRS performance when offered by the network operators.</li> </ul>
	<p>CSD:</p> <ul style="list-style-type: none"> <li>OSD transmission rates: 2.4, 4.8, 9.6, 14.4 kbps, non-transparent, V.110</li> <li>Unstructured Supplementary services Data (USSD) support</li> </ul>
	<p>WAP:</p> <ul style="list-style-type: none"> <li>WAP compliant</li> </ul>
SMS	<ul style="list-style-type: none"> <li>MT, MO, CB, Text and PDU mode</li> <li>SMS storage: SIM card plus 25 SMS locations in the mobile equipment</li> <li>Transmission of SMS alternatively over CSD or GPRS. Preferred mode can be user-defined.</li> </ul>
MMS	MMS compliant