



**ETEK NAVIGATION, INC.**

**PROFESSIONAL IN NAVIGATION & COMMUNICATION**

## **Marine GPS Locator**

### **MODEL: GM-88K**

Concinnity and Solid design for GPS Marine Locator  
with Full Waterproof



**GM-88K** is an outstanding high sensitivity Marine GPS receiver. With excellent performance, it's easily to conquer the most difficult tasks. In addition, it also provides various functions to meet customers' needs. **GM-88K** employs MTK powerful GPS receiver chipset solution. It provides marvelous navigation performance under dynamic conditions in areas with limited sky view like urban canyons. It also has high sensitivity for weak signal operation without compromising accuracy. Undoubtedly, **GM-88K** is the best choice for you.

#### **Key Feature:**

- Excellent noise immunity
- Very Fast TTFF
- Sensitivity: -158dBm(Tracking)
- Standard and NMEA-0183 output
- User selectable baud rate
- WAAS, EGNOS, MSAS capable
- Easy installation / operation

#### **Possible Application:**

- Marine Navigation.
- Fleet Management.
- Mileage Management.
- Tracking devices/system.
- Data logging for marine Navigation.
- Mapping devices for PC & Pocket PC.
- Marine Navigation or touring devices.
- AVL and Location-Based service system.

#### **Specifications:**

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Specifications	Parameter	Description
<b>General</b>		L1 frequency, C/A code(SPS), 32 Independent tracking channel
<b>Sensitivity</b>		-158dBm
<b>Accuracy</b>	Position	Without aid: 3.3m CEP
	Velocity	0.1 Knot RMS steady state
<b>Acquisition</b>	Cold start	41 sec. (typical)
	Warm start	35 sec. (typical)
	Hot start	1 sec. (typical)
<b>Reacquisition</b>		100 ms typical (signal reacquisition)
<b>Dynamics</b>	Altitude	18000m max.
	Velocity	500 m/sec.
	Vibration	4G max.
<b>Operation Temperature</b>		-30° C to +80° C
<b>Storage Temperature</b>		-40° C to +85° C
<b>Operating Humidity</b>		0% to 95% RH, non condensing
<b>Water Resistance</b>		100% waterproof
<b>Primary Power</b>		8V ~ 35V DC
<b>Power Consumption</b>		34mA~44mA @ 12V DC
<b>Protocol</b>		NMEA-0183 v3.01 baud rate(adjustable) 4800/9600/19200/38400/115200, default 4800
<b>Signal level</b>		RS-232(standard)
<b>NMEA Message</b>	Default	RMC, GGA, GSV*5, VTG, GSA*5
	Optional	GLL, ZDA
	Update rate	1~5Hz(Default 1Hz)
<b>EMI filter</b>		Rejects power line interference
<b>SBAS</b>		1 channel (support WAAS, EGNOS, MSAS) (Default: disable)
<b>Power cable</b>		UL 2464/ 24AWG, 6M
<b>Enclosure</b>		High impact, corrosion-proof polycarbonate resin
<b>Connector</b>		Open cable terminal
<b>Dimensions</b>		80mm(Dia.) x 25mm(H)
<b>Weight</b>		100 grams (without cable)

\* This specification is subject to change without prior notice)

Data Updated: Mar. 28 2007