

**VP-88K and VP-88T**

**Marine GPS-Receiver**

- Extremely robust
- Sensitivity -158dBm
- RS-232 Data output
- Adjustable Baud rate
- WAAS, DGPS, MSAS capability
- Very fast TTFF
- Standard NMEA-0183 Data
- Simple Installation and Operation
- 1" Screw for Pole Mounting
- Pedestal included
- Available also with 1pps Timing



**General**

The VP-88K is an external waterproof GPS receiver with integrated antenna for applications in the open air, at sea or on vehicles.

It has at its heart the MTK-3301 GPS Chipset, which gives great efficiency and accuracy, even in situations where the sky is obscured by spray, vegetation or buildings.

The receiver has a 6-pin connector. A suitable cable (15m) is available.

**Timing Variant**

If you need a timing pulse per second (1PPS) then please order the **VP88T**. This has an additional wire for the 1pps pulse with +/- 100 nanoseconds accuracy.

## Specifications

<b>General</b>		L1 frequency, C/A code (SPS), 32 Independent tracking channel
<b>Sensitivity</b>		-158dBm
<b>Accuracy</b>	Position Velocity	Without aid: 3.3m CEP DGPS(RTCM): 2.6m 0.1 Knot RMS steady state
<b>Acquisition</b>	Cold start Warm start Hot start	41 sec. (typical) 35 sec. (typical) 1 sec. (typical)
<b>Reacquisition</b>		100 ms typical (signal reacquisition)
<b>Dynamics</b>	Altitude Velocity Vibration	18000m max. 500 m/sec. 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>Signal Protocol</b>		NMEA-0183 v3.01 baud rate(adjustable) 4800/9600/19200/38400/115200,
<b>Signal Level</b>		RS-232(standard) default 4800 baud
<b>NMEA Message</b>	Default: Optional: Update rate	RMC, GGA, GSV*5, VTG, GSA*5 GLL, ZDA 1~5Hz
<b>DGPS Capability</b>		RTCM protocol
<b>EMI filter</b>		Rejects power line interference
<b>SBAS</b>		1 channel (support WAAS, EGNOS, MSAS)
<b>Power cable</b>		UL 2464/ 24AWG,15M
<b>Enclosure</b>		High impact, corrosion-proof polycarbonate resin. Screw thread 1" 14tpi to pole or stand.
<b>Connector</b>		7 pin circular, hermetically sealed. Gold plated for anti-corrosion
<b>Weight</b>		150 grams (without cable)
<b>Dimensions</b>	GPS Locator Mounting Base	80mm(Dia.) × 71.3 mm(H) 110mm(W) × 70mm(L) × 75.2mm(H)
<b>Part-numbers</b>	<b>VP-88K</b> <b>VP-88T</b> <b>KABELVP88</b>	GPS Receiver with stand GPS Receiver with stand – timing variant 15m cable for VP-88K or VP-88T.