Model GB-380

Featuring:

Combined precision GPS sensor and public IALA*1 beacon receiver housed in a compact, single high-impact cabinet, eliminating the need to install an extra beacon antenna.

Satellite-based augmentation system (SBAS)-enabled, supporting all currently active satellite-based correction broadcasts including EGNOS*2, MSAS*3 and WAAS*4 to provide accurate, reliable position coordinates everywhere on the globe.

Automatic selection of optimum beacon transmitters plus automatic updating of almanac data on the basis of current GPS fixes, with manual override by software commands.

Differential corrections automatically applied by just plugging it into an existing position display device*5. No applications software required*6.

Built-in highly efficient ferrite loop (H-field) antenna for beacon signal reception with no need to ground the system.

Specifications

- **GPS Receiver:** 18-channel parallel, 1575.42 MHz, C/A code
- **Accuracies (2 drms, S/A off, PDOP≦3):** 5m (beacon), 8m (SBAS), 10m (GPS alone)
- **Velocity Accuracy (S/A off, PDOP≦3):** 0.1 knots (beacon)
- **Type of Beacon Receiver Antenna:** Ferrite loop (H-field)
- **Beacon Coverage:** 283.5 to 325.0 kHz in 500 Hz steps, automatic/manual selection
- **Correction Inputs:** IALA beacon (RTCM-SC104) and SBAS (EGNOS, MSAS, WAAS)
- **Time-to-First Fix (typical):** 50 sec./cold start, 45 sec./warm start, 20 sec/hot start
- **Outputs:** GGA, GLL, VTG, RMC, ZDA, GSA, GSV & MSS at NMEA-0183/RS-232C level
- **Power Requirements:** 10.8 to 31.2 VDC, approx. 2.5W
- **Size:** 138 dia.×151H mm with 15m cable (standard), 1”-14 thread marine pole
- **Weight:** 0.76 kg without cable
- **Environment:** IEC 60945-2002 (exposed category), IPX6

1 International Association of Marine Aids to Navigation and Lighthouse Authorities
2 European Geostationary Satellite Navigation-Overlay Service
3 Based on Multifunctional Transport Satellite (MTSAT, administered by Japanese Govt.)
4 Wide Area Augmentation System (operated by U.S. FAA)
5 Direct plug-in to JMC models. NMEA-0183 input port required for other brands.
6 unless manual selection of transmitters or manual selection of correction sources is intended.