

GPS-GEN-0001



GLOBAL NAVIGATION SATELLITE SYSTEM RECEIVER



The GPS-GEN-0001 is a compact, encapsulated, waterproof, precision timing global navigation satellite system (GNSS).

Designed for use with Güralp instrumentation, the GNSS receiver provides a stable and reliable clock source for accurate time stamping of digitised data. Time sources can be selected from GPS, GLONASS, BeiDou or Galileo.

The GPS-GEN-0001 operates completely automatically and requires no configuration or initialisation. Once connected to a compatible instrument with a power supply, it will start sending status information immediately. The 92 channel receiver means a full, three-dimensional fix is normally obtained within 30 seconds.

Key features

Robust, lightweight (125g excluding cable) fully overmoulded waterproof casing (IP68 rating - protection against effects of prolonged immersion at 3 m depth for 72 hours)

RS422 outputs allow for a distance of up to 50m from the digitiser

Full NMEA output includes time, position, elevation and status information

92 channel receiver for maximum coverage

Supply voltage of 5 - 36 V DC

Low power consumption

Wide operating temperature of -20 to +80 °C

Timing source precision accuracy when GPS locked ± 50 ns
typical drift when unsynchronised (without GNSS) < 1 ms per day

GPS, GLONASS, BeiDou and Galileo

Images show the GPS-GEN-0001

- > The GPS-GEN-0001 is compatible with: Minimus (+), Affinity, Fortimus and Radian
- > 14-way LEMO Connector uses a push/pull latching mechanism to provide a secure, rugged and durable connection
- > The Cable is shielded to protect against interference
- > The unique design makes it easy to mount

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In the interests of continual improvement with respect to design, reliability, function or otherwise, all product specifications and data are subject to change without prior notice.

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