CMG-RTM-0003





Real-time clock and GPS emulator

The Güralp Systems CMG-RTM is a battery backed, high-precision, thermally-compensated, real-time clock module with simulated GPS output. It obtains its initial synchronisation from a GPS receiver and, once locked, starts generating GPS signals, making it suitable for use as a time-source for GPS-synchronised equipment in situations where GPS receivers are impractical.

Key Features:

Compact, hand-held unit

Internal battery allows up to eight days run-time between synchronisation and deployment

Large, clear, back-lit liquid crystal display provides status information

Directly compatible with CMG-DM24 digitisers and digital instruments

Simple operation with no controls





Specifications

CMG-RTM-0003



Physical

Length (casing) 150 mm

Length (including connectors) 162 mm

Width 80 mm

Depth 45 mm

Material Polystyrene

Display 21 character, 4 line

Weight 305 g

Electrical

Power supply input voltage 5 V to 36 V DC

Power supply input current 20 mA at 12 V DC

(without receiver connected)

Battery capacity 1.84 Ah

Battery backup 7 - 10 days

Timing

NMEA output sentences \$GPGSA and \$GPZDA

Trained Temperature range -10 °C to +50 °C in 1 °C increments

(extrapolated for out-of-range values).

Operating Temperature range -10°C to +60°C

Accuracy <3×10⁻⁸ (<100 ms per month)