

Primary Reference Source VCH-311C

 vremya-ch.com/index.php/en/products-en/telecommunic-en/vch-311c-en/index.html



GPS/GLONASS primary reference source VCH-311C contains multi-channel GPS/GLONASS receiver, time scale comparison unit and automatically adjustable Rubidium reference oscillator.

The instrument is intended to be used as the first class SDH synchronization equipment of digital networks

telecommunication.

Key applications

Digital SDH networks clock synchronization.

Specifications

Output signals:

- 5 and 10 MHz, sine, 1 V into 5 Ω load;
- 2.048 MHz, pulse, (ITU-T G.703/13). Optionally: 2048 kbps, pulse, (ITU-T G.703/9);
- 1 Hz, pulse, TTL levels into 50 Ω load, (1 pps GPS/GLONASS receiver output).

The noise generation of a PRS VCH-311 meets to ITU-T G.811 section 6 and ETC 300 462-6 section 5:

Wander:

MTIE:

$0.275 \times 10^{-3} \tau + 0.025 \mu\text{s}$ for $0.1 < \tau \leq 1000 \text{ s}$

$10^{-5} \tau + 0.29 \mu\text{s}$ for $\tau > 1000 \text{ s}$

TDEV:

3 ns for $0.1 \leq \tau < 100 \text{ s}$

0.03 τ ns for $100 \leq \tau < 1000 \text{ s}$

30 ns for $1000 \leq \tau < 10\,000 \text{ s}$

Jitter: do not exceed 0.05 UIpp.

Digital control and monitoring all operating parameters on LSD display.

Interface: RS-232C; USB. Optionally: NTP-server (Stratum 1); SiRF time protocol.

Power supply: AC (198÷242) V, (50÷60) Hz; DC (38.4÷57.6) V, two inputs (specify in purchase order).

Power consumption: 45 W in normal conditions (85 W warm up time 1 hour).

Dimensions (W×H×D): 483×133×310 mm.

Antenna: dimensions 185mm× \varnothing 181mm. Weight 0.5 kg. Antenna cable's length is 60 m.

Weight: 10 kg.

Warranty: 3 years.

Life time: 15 years.

