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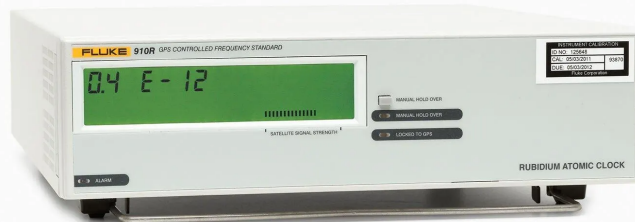
Data Sheet

August 13, 2026

FLUKE

Fluke 910R GPS Controlled Rubidium Standard

GPS receiver: 8-channel parallel; L1 C/A; antenna connector TypeNPC interface: RS-232 9600 bps DB9 Internal storage: 2 years 24 h frequency offset; 2 years adjustment data Line power: 100 to 240 V +/-10%; 47 to 63 Hz Specs from Fluke 910/910R product page and datasheet. Confirm installed options 70/71/72/73/75/76 and antenna kit separately. Fluke 910R GPS Controlled Rubidium Standard The Fluke 910R isaGPS-controlled frequency standard with an internal rubidium atomic clock as the local oscillator. GPS Cesium-referenced satellites provide long-term traceability while the rubidium reference delivers high short-term stability. Standard outputs are five 10 MHz sine, one 5 MHz sine, and one 1 pps TTL. Disciplined and hold-over modes, GPSView software, and optional additional reference outputs support lab and remote timing workloads.



MODEL

Fluke 910R

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

910R

LISTING

<https://aumictechlabs.com/products/910r-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Fluke 910R GPS-controlled rubidium frequency standard delivers exceptional accuracy and stability. By locking a rubidium oscillator to a GPS signal, it achieves superior long-term performance. Ideal for calibration labs and metrology applications that require a reliable and traceable frequency reference.

Features & description

From manufacturer datasheet

Features

- Built-in rubidium atomic clock disciplined to GPS
- Five 10 MHz and one 5 MHz sine outputs standard
- 1 pps TTL output locked to GPS
- Manual and automatic hold-over modes
- Two-year non-volatile 24 h offset storage for GPSView traceability
- Optional extra 10 MHz, multi-reference, 2.048 MHz, 13 MHz, pulse, Ethernet

Applications

- Traceable laboratory frequency and time reference
- Calibrator and counter 10 MHz reference distribution
- Hold-over rubidium operation during GPS outages or transport
- Telecom/reference distribution with optional 2.048 MHz outputs

910R Characteristics / Specifications

PARAMETER	VALUE
Model	910R
Manufacturer	Fluke Calibration
Instrument Type	GPS Controlled Rubidium Frequency Standard
Alias	910R; Fluke 910R; GPS-Rb
Local oscillator	Rubidium atomic clock
GPS locked 24 h mean frequency offset	less than 1E-12 at 23 +/-3 degC
Allan deviation locked tau 1 s	less than 3E-11
Allan deviation locked tau 10 s	less than 1E-11
Allan deviation locked tau 100 s	less than 3E-12
Phase noise 1 Hz	-80 dBc/Hz typical
Phase noise 100 Hz	-130 dBc/Hz typical
Phase noise 100 kHz	-145 dBc/Hz typical 10 MHz outputs: 5 standard; sine about 0.5 to 0.6 Vrms into 50 ohm 5 MHz output: 1 standard; sine about 0.5 to 0.6 Vrms into 50 ohm 1 pps output: TTL; low less than 0.4 V; high greater than 2 V into 50 ohm 1 pps jitter locked: less than 60 ns rms vs UTC/GPS class
GPS receiver	8-channel parallel; L1 C/A; antenna connector TypeNPC interface: RS-232 9600 bps DB9
Internal storage	2 years 24 h frequency offset; 2 years adjustment data
Operating temperature	0 to 50 degC
Storage temperature	-40 to 70 degC
Line power	100 to 240 V +/-10%; 47 to 63 Hz
Power continuous	less than 35 W
Size	315 × 86 × 395 mm
Weight	4.4 kg net Notes Specs from Fluke 910/910R product page and datasheet. Confirm installed options 70/71/72/73/75/76 and antenna kit separately.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	40 to 70 degC
Operating temperature	0 to 50 degC
Operating Temperature	0 to 50 degC
Line power	100 to 240 V +/-10%; 47 to 63 Hz
Power continuous	less than 35 W
Size	315 × 86 × 395 mm
Weight	4.4 kg net Notes Specs from Fluke 910/910R product page and datasheet. Confirm installed options 70/71/72/73/75/76 and antenna kit separately.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
Specifications	
PARAMETER	VALUE
GPS receiver	8-channel parallel; L1 C/A; antenna connector Type N
PC interface	RS-232 9600 bps DB9
Internal storage	2 years 24 h frequency offset; 2 years adjustment data
Operating temperature	0 to 50 degC
Storage temperature	-40 to 70 degC
Line power	100 to 240 V +/-10%; 47 to 63 Hz
Specifications	
PARAMETER	VALUE
Model	910R
Manufacturer	Fluke Calibration
Instrument Type	GPS Controlled Rubidium Frequency Standard
Alias	910R; Fluke 910R; GPS-Rb
Local oscillator	Rubidium atomic clock
GPS locked 24 h mean frequency offset	less than 1E-12 at 23 +/-3 degC
Allan deviation locked tau 1 s	less than 3E-11
Allan deviation locked tau 10 s	less than 1E-11
Allan deviation locked tau 100 s	less than 3E-12
Warm-up to lock: about 20 minutes at +25 degC	
Hold-over aging per day: less than 2E-12 typical	
Hold-over aging per month: less than 5E-11	
Hold-over temp 0 to 50 degC: less than 3E-10	
Specifications	
PARAMETER	VALUE
Phase noise 1 Hz	-80 dBc/Hz typical
Phase noise 100 Hz	-130 dBc/Hz typical
Phase noise 100 kHz	-145 dBc/Hz typical

10 MHz outputs: 5 standard; sine about 0.5 to 0.6 Vrms into 50 ohm
5 MHz output: 1 standard; sine about 0.5 to 0.6 Vrms into 50 ohm
1 pps output: TTL; low less than 0.4 V; high greater than 2 V into 50 ohm
1 pps jitter locked: less than 60 ns rms vs UTC/GPS class

Specifications

PARAMETER	VALUE
GPS receiver	8-channel parallel; L1 C/A; antenna connector TypeNPC interface: RS-232 9600 bps DB9
Internal storage	2 years 24 h frequency offset; 2 years adjustment data
Operating temperature	0 to 50 degC
Storage temperature	-40 to 70 degC
Line power	100 to 240 V +/-10%; 47 to 63 Hz

Power warm-up: less than 75 W

Specifications

PARAMETER	VALUE
Power continuous	less than 35 W
Size	315 x 86 x 395 mm
Weight	4.4 kg net

Notes
Specs from Fluke 910/910R product page and datasheet. Confirm installed options 70/71/72/73/75/76 and antenna kit separately.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.