

ROHDE & SCHWARZ

URE2

The Rohde & Schwarz URE2 is a high-accuracy, broadband RMS voltmeter designed for speed and precision across a wide frequency range. Utilizing a patented rectifier circuit, the URE2 achieves true RMS measurement for both AC and AC+DC signals with a crest factor up to 7 and frequencies scaling up to 25 MHz.

SPECIFICATIONS

General

Interfaces	GPIB (IEEE-488)
Display	4.5-digit digital LCD and analog display with selectable scale

Physical

Power Supply	100 V / 120 V / 220 V / 240 V ($\pm 10\%$), 47 Hz to 440 Hz, 30 VA
Operating Temperature	0 °C to +50 °C °C
Dimensions (W×H×D)	219 mm × 103 mm × 350 mm mm
Weight	4.8 kg kg

Voltage Measurement Specifications

AC Voltage Measurement Range	50 μ V to 300 V
Frequency Range	DC, 10 Hz to 25 MHz
Crest Factor Range	Up to 7
Measurement Resolution	4.5 digits
True RMS Converter Type	Patented rectifier circuit
AC+DC Coupling Capability	Yes
Autocalibration	Microprocessor-controlled autocalibration with nonvolatile storage of correction factors
Zero Function	Compensation for noise voltages and inherent noise

Input Characteristics

Input Impedance	1 M Ω
Input Capacitance	25 pF
Input Coupling Modes	AC, DC, AC+DC
Maximum Continuous Input Voltage	300 V RMS
Probe Scaling Support	Division factor support for commercial probes

Measurement Speed and Dynamics

Maximum Reading Rate	> 30 measurements/s (via IEC bus)
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Display and Math Functions	
Relative Measurement Mode	Yes
Statistical Functions	Maxima and Minima

Accuracy	
Basic DC Accuracy	$\pm(0.05\% \text{ of reading} + 0.01\% \text{ of range})$
Basic AC Accuracy (at 1 kHz)	$\pm(0.05\% \text{ of reading} + 0.02\% \text{ of range})$

Performance	
Inherent Noise	$< 10 \mu\text{V}$ (in 1 mV range with short-circuited input)

Outputs	
Analog Output	Linear (0 to 2 V) and Logarithmic (10 mV/dB) modes

Measurement Ranges	
Voltage Measurement Ranges	1 mV to 300 V (in 12 steps: 1/3/10 sequence)

Frequency Counter	
Frequency Counter Measurement Range	10 Hz to 30 MHz
Frequency Counter Sensitivity	1 mV (10 Hz to 10 MHz), 10 mV (10 MHz to 30 MHz)

Rear Panel Connections	
External Trigger Input	TTL level, BNC connector (rear panel)

TECHNOLOGY	
Broadband RMS Voltmeter	

APPLICATIONS	
Precision AC and DC voltage measurements in RF, audio, and general-purpose test environments	

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.