

# Voltage, Power, Frequency Measurements

## Millivoltmeter R&S®URV5

DC, 9 kHz to 3/26.5 GHz

200  $\mu$ V to 1000 V

Voltage, level, power measurements; trend indication



### Brief description

Millivoltmeter R&S®URV5 is a broadband voltage, level and power meter of high accuracy and sensitivity. It is suitable both for manual operation and for use in systems. A wide choice of individually calibrated probes and sensors allows R&S®URV5 to be used for a great variety of measurements:

- ◆ With RF probe and DC probe for no-load AC and DC voltage measurements
- ◆ Voltage (and power) measurements in coaxial 50  $\Omega$  and 75  $\Omega$  systems using low-reflection and low-loss insertion units
- ◆ Power measurements up to 26.5 GHz using Power Sensors R&S®NRV-Z1 to -Z6

### Main features

- ◆ Two test inputs
- ◆ High accuracy through  $\mu$ P-controlled error correction:  $\pm 1\%$
- ◆ Dynamic range >94 dB
- ◆ IEC/IEEE-bus interface
- ◆ Readout in all standard units with selectable reference impedance; relative measurements
- ◆ Optional DC output
- ◆ PEP measurement

### Specifications in brief,

Probes and sensors	all R&S®URV5 probes and R&S®NRV sensors, except R&S®NRV-Z3x and R&S®NRV-Z5x, -Z15					
Test channels	2 (A and B)					
Absolute measurement	A, B					
Relative measurement	A/REF <sub>A</sub> , B/REF <sub>B</sub> , A/B, B/A					
Absolute readout	V, W, dBm, dBV					
Relative readout	$\Delta$ V, $\Delta$ W, $\Delta\%$ , $\Delta$ dB, X/REF					
Resolution	0.01% or 0.01 dB					
Accuracy of voltage readout in V (18°C to 28°C)	$\pm 0.15\%$ of rdg per channel					
Filter	to reduce display noise in 6 steps (F0 to F5), selectable					
Zero adjustment	via keyboard or remote control					
Measurement rate (manual)	approx. 1 measurement/s with filter F0, up to 30 measurements/s with filter F5					
Measurement time (IEC/IEEE bus)	approx. 0.05 s with filter F5, up to 20 s with filter F0					
PEP measurement						
Pulse width	approx. 200 $\mu$ s to CW					
Min. pulse repetition frequency						
Filter	F0	F1	F2	F3	F4	F5
f <sub>min</sub> /Hz	0.05	0.25	1	5	25	100

Frequency-response correction (selectable)	sensor-specific frequency response after entry of test frequency
Attenuation compensation (selectable)	one attenuation value per channel can be entered (-199.99 dB to +199.99 dB)
Reference value for relative measurements	one value per channel

#### Optional DC Output R&S®URV5-B2

Output voltage range (EMKF)	-1.999 V to +1.999 V, R <sub>out</sub> = 1 k $\Omega$
Resolution; error	1 mV (10 digit); $\pm 2$ mV

#### General data

Remote control	IEC625-1 (IEEE 488) for control of all instrument functions
Power supply	100/120/220/240 V $\pm 10\%$ , 47 Hz to 63 Hz, 400 Hz, 30 VA
Dimensions (W x H x D)	241 mm x 110 mm x 340 mm
Weight	4.4 kg

### Ordering information

Millivoltmeter	R&S®URV5	0394.8010.02
Options		
DC Output	R&S®URV5-B2	0079.0631.00
Service Kit for Calibration	R&S®UZ-8	0394.9968.02

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