Level Meter URV35

DC to 3/40 GHz 200 μV to 1000 V

100 pW to 30 W

Power and voltage measurement with a

unique analog/digital display

POHOEASCHWARZ LEVEL WETER - UNV 35 1829-0002-88 Photo 40278

Brief description

URV35 is a voltmeter and power meter for versatile applications in service and production as well as for precision measurements in RF and microwave labs. A large variety of probes and sensors allows voltage measurements up to 3 GHz and power measurements up to 40 GHz.

Main features

- · Compact, handy and mobile
- · Voltmeter and power meter in one unit
- · Rugged design
- · Combined (true) analog and digital display
- Menu-guided operation
- AC-supply or battery operation

- Large choice of probes and sensors
- DC frequency input for tracking frequency-response correction
- · Analog output for YT recorder
- RS-232-C interface
- · Test generator for checking the probe or sensor (optional)

Specifications in brief; voltage probes page 262, power sensors page 266

Probes and sensors Display

Absolute readout Relative readout Resolution of digital display

Analog display

Entry of scaling Display filtering

Accuracy (18 to 28°C) Digital display Moving-coil meter Zero adjustment Hold function Measurement rate Frequency-response correction (selectable) Attenuation compensation (selectable)

Entry of reference value

Reference impedance

Sensor check source (option NRVS-B1)

Output 50 MHz/1 mW ±0.7%; N connector **VSWR**

Interfaces

Remote control DC frequency input Input voltage range all URV5 probes and NRV sensors backlit LCD, moving-coil meter with short response time dBm, dBµV, V or W dB, referred to stored reference value 41/2 digits: 19999 steps; 0.001 dB 3¹/₂ digits: 1999 steps; 0.01 dB steps of 1-2.5-5 for V, W and dB, 5 (10) dB for dBm and dBuV with windows of 10 (20) dB left- and right-hand scale limits level-dependent digital averaging fil-

±0.02 dB ±1 digit 1.5% of full scale via interface or manually, approx. 4 s for displayed measurement result 5 readouts/s in manual mode sensor-specific calibration data taken into account external attenuation or gain taken into account, range ±199.99 dB measured value on keystroke, or value entered via interface or keypad 50 $\Omega/75 \Omega$, automatic/selectable

serial interface (V.24, RS-232-C)

±12 V, linear with selectable scale

BNC, $R_{in} = 9 M\Omega$

Sensor Check Source Power Supply/Charger (for model 02)¹⁾ UZ-35

Power Supply/Charger (for model 02)²⁾UZ-35 Service Kit

URV 35-S1

1020.1709.02 1020.1709.04 1029.2608.02

1029.2908.02

2) US power supply

DC voltage output

Left-/right-hand scale limit Additional settling time Accuracy

General data

Model 02 power supply Battery, standard Operating time Rechargeable battery, retrofittable Operating/charging time AC supply with UZ-35, European version AC supply with UZ-35. US version Model 03

Dimensions (W x H x D) Weight model 02 model 03

BNC, $R_{out} = 1 \text{ k}\Omega$, EMF proportional to pointer deflection corresponding to 0/+3 V 250 ms +5 mV

5 x 1.5 V alkaline-manganese LR20 125 h 5 x 1.2 V NiCd IEC KR35/62 60 h/24 h

230 V ±10%, 47 to 63 Hz

120 V ±10%, 57 to 63 Hz 115 V +15%/-22%, 47 to 440 Hz 230 V +15%/-22%, 47 to 63 Hz (switch-selectable); 6 VA 220 mm x 100 mm x 240 mm 3.1 kg/2.3 kg with/without batteries 2.4 kg

Ordering information

Level Meter battery-operated URV35 1020.0002.02 URV35 1020.0002.03 AC-supply model Options

NRVS-B1

1) European power supply