## Millivoltmeter URV5

DC. 9 kHz to 3/26.5 GHz 200 uV to 1000 V Voltage, level, power measurements: trend indication

MILLINGTRETCH - UNVS 144 6 8 9 10 10 -. Photo 33034

### **Brief description**

Millivoltmeter 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 URV5 to be used for a great variety of measurements:

- With RF probe and DC probe for noload 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 NRV-71 to -76

#### Main features

- Two test inputs
- High accuracy through µP-controlled error correction: ±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; voltage probes page 262, power sensors page 266

Probes and sensors

Test channels Absolute measurement Relative measurement Absolute readout Relative readout Resolution Accuracy of voltage readout in V (18 to 28°C) Filter

Zero adjustment Measurement rate (manual)

Measurement time (IEC/IEEE bus)

PEP measurement Pulse width Min. pulse repetition frequency Filter f<sub>min</sub>/Hz

all URV5 probes and NRV sensors. except NRV-Z3x and NRV-Z5x, Z15 2 (A and B) A, B A/REFA, B/REFB, A/B, B/A V, W, dBm, dBV ΔV. ΔW. Δ%. ΔdB. X/REF 0.01% or 0.01 dB

±0.15% of rdg per channel to reduce display noise in 6 steps (FO to F5), selectable via keyboard or remote control approx. 1 measurement/s with filter FO, up to 30 measurements/s with filter F5 approx. 0.05 s with filter F5, up to 20 s with filter FO

approx. 200 µs to CW

| FO   |      |   |   |    |     |
|------|------|---|---|----|-----|
| 0.05 | 0.25 | 1 | 5 | 25 | 100 |

| Frequency-response correction<br>(selectable)<br>Attenuation compensation (selectable) | sensor-specific frequency response<br>after entry of test frequency<br>one attenuation value per channel can<br>be entered (–199.99 to +199.99 dB) |
|--|--|
| Reference value for relative measurements  | one value per channel  |
| <b>Optional DC Output URV5-B2</b><br>Output voltage range (EMKF)<br>Resolution; error  | -1.999 to +1.999 V, $R_{out}$ = 1 k $\Omega$ 1 mV (10 digit); ±2 mV  |
| General data   |  |
| Remote control   | IEC 625-1 (IEEE 488) for control of all instrument functions   |
| Interface functions  | SH1, AH1, T5, L4, SR1, RL1, DC1, DT1, PP1  |
| Power supply   | 100/120/220/240 V ±10%<br>47 to 63 Hz, 400 Hz, 30 VA   |
| Dimensions (W x H x D); weight   | 241 mm x 110 mm x 340 mm; 4.4 kg   |

# **Ordering information**

| Millivoltmeter                                      | URV 5            | 0394.8010.02                 |
|---|------------------|------------------------------|
| Options<br>DC Output<br>Service Kit for Calibration | URV 5-B2<br>UZ-8 | 0079.0631.00<br>0394.9968.02 |