



KUV 2.4 WR

Reference radiometer

System-Features

- Precise UV-intensity-measurements up to $2,000 \text{ W/m}^2$
- Suitable for UV-low- and medium pressure lamps
- Automatic sensor detection
- Display with backlight-function

Advantages

- Simple re-calibration of field sensors
- Integral measurement and peak value storage
- User-friendly with battery operation
- Splash water resistant robust metal housing

KUV 2.4 WR

Reference radiometer

The mobile UV-reference radiometer KUV 2.4 WR is designed as a reference unit in accordance with **DVGW W294 and / or ÖNORM M5873** relating to UV-sensors. It is made to control and re-calibrate UV-field sensors, mainly in drinking water disinfection systems.

Features

A **sealed and robust metal housing** protects the device against external impacts and assures a protection rating to IP65. The measuring device is equipped with a 2-line LCD-display with backlight, automatic measuring range change-over and can be easily operated via three buttons.

The exchange of a sensor is detected with an automatic process.

The KUV 2.4 WR is charged by a provided power supply cable. All measured values can be read analogue as well as digital by computer via a serial **RS232 interface**.

Measuring operation

Before starting the measuring procedure, an automatic zero balance is performed. During the control measurement, the display shows the power rating in W/m^2 .

The device automatically changes to the optimum range. The reference radiometer KUV 2.4 WR can be used for both **low-pressure and medium-pressure lamps** up to a radiation intensity of $2,000W/m^2$.

Calibration and certification

When our digital sensors are used, the KUV 2.4 WR makes **sensor re-calibrations in the range from $\pm 30\%$** . The **calibration is completed directly in the system**, without sending sensors back to our facilities.

The radiometer is designed to control the calibration of field sensors in DVGW-/ ÖNORM-certified systems. After switching on, the device detects the connected sensor and assigns the respective calibration value internally. The calibration should be checked regularly, but at the latest after 12 months or 100 operating hours. For this, the device must be send back, including all sensors.

Technical Data

Housing	Aluminum (soft black)
Dimensions (WxDxH)	105 x 230 x 35 [mm]
Weight	790 g incl. sensor and accu
Supply voltage	110-230 V AC 9-12 V DC
Measuring range	2, 20, 200, 2000 W/m^2
Accuracy	$\leq \pm 1\%$ bei Niederdruck $\leq \pm 3\%$ bei Mitteldruck
Reference sensors	40° according to DVGW W294 160° according to DVGW W294 160° according to ÖNORM M5873
Measurand output	Analog 0,1-4,1 V Digital RS232
Permissible calibration range	$\pm 30\%$ from factory calibration
Temperature range	0-30°C
Display	2x 16 digits, backlitged
Protection class	IP65
Calibration intervall	12 months or after 100 operation hours



Example of use

hönle group	Disinfection	Drying	Curing	Control	Measuring
eleco panacol-efd eltosch grafix gepa coating hönle luminez panacol printconcept raesch sterilsystems technigraf umex uv-technik speziallampen					



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Operating parameters depend on production characteristics and may differ from the foregoing information.
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