



UVerifier Reference Radiometer

Measuring made easy



The WEDECO UVerifier is a DIN 19294-3 compliant UV reference radiometer that simplifies the inspection process, making it quick and easy to verify the effectiveness of UV disinfection in drinking water systems.

Ensuring UV performance

UV intensity is a key indicator of a UV system's effectiveness. That's why UV systems used for public drinking water treatment must comply with strict certification standards that ensure a minimum intensity level—and in turn, reliable disinfection performance. To uphold these standards, each system is equipped with a calibrated sensor that continuously monitors UV intensity.

Proven UV checks

For UV disinfection systems, the accuracy of the intensity readings must be verified at least once a month, in accordance with DVGW worksheet W294-1, DIN 19294-1, and the US EPA UVDGM (2006) guidelines. For systems with lower flow rates, the sensor should be checked at least every six months. These routine inspections help ensure the system's disinfection performance remains reliable and consistent over time.

Advantages

- Suitable for measuring all sensors in accordance with DIN 19294-3
- Suitable for DIN 19294-1, DVGW, ÖNORM M 5373-3, USEPA UVDGM systems
- Measuring Range: 0.2 - 3000 W/m²
- Digital four-digit measurement value display, thus fulfilling the requirements of DVGW worksheet W294-3
- Robust housing protected from splashing water with illuminated display
- Hand-held and simple to operate
- Not dependent on mains supply, so can be used quickly anywhere

Additional features

- Mains independent operation mode
- Digital four-digit measurement value display
- Illuminated display
- Adjustment of the measurement value
- Measurement value limitation

Technical data

Dimensions

173 x 88 x 34 mm (7 x 3.5 x 1.3 in)

Weight

335g (<1lb)

PCB

0-50°C (0-122°F)

Enclosure Material

ABS

Temperature Range

0-50°C (0-122°F)

Working Area Humidity

5-93% RH

Analog Output

0/4.20 mA

Operating Voltage

3V...4.5V (3 x AA Batteries), 5V USB-C

Display Languages

English, German

Housing Protection Class

IP65

Cross-system verification

This is where the UVerifier portable measuring device proves its value. It delivers comparative readings from UV sensors in disinfection systems using low-pressure mercury vapor lamps – regardless of the system’s manufacturer. The WEDECO UVerifier meets the DIN 19294-3 requirements for a **reference radiometer**. Its four-digit display also complies with the specifications outlined in DVGW worksheet W294-3.

Portable, robust, adaptable

The UVerifier operates independently of a mains power supply, features an illuminated display, and is housed in a splash-resistant casing. Its measurement range automatically adapts to the irradiation intensity and extends up to 3000 W/m²—well beyond the 0–250 W/m² range required by ÖNORM. This broad capability allows the device to be used with uncertified UV systems as well.

What's included:



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