Dr. Gröbel
UV-Elektronik GmbH
we apply photonics.

DVGW / ÖNORM Sensors

Fig. 1: DVGW sensor with measuring window tube and cap nut.

The German Technical and Scientific Association of Gas and Water (DVGW) and the Austrian Standards Committee have defined shape and function of sensors for UV water disinfection in the technical rule W294-3 and the Austrian standard ÖNORM 5873, respectively. Sensors are inserted into a waterproof measuring window tube. This allows a simple and reproducible exchange of the sensors.

Our sensors are traceable to a PTB reference. The electronics integrated in the sensors generates signal voltages or currents that are transferred to the display or system control electronics with low noise by a shielded cable.

A superior long-time stability and corrosion resistance is achieved by the selection of suitable materials. Measuring signals can be transferred to UV radiometers RM-12 or RM-21, UV monitor RM-32 or the system controller of the used in dependence on the electronics option.

Technical Data

Measuring window tube:

Measuring window	quartz glass d=5mm
Transmission	>90% at 254 nm
Internal space	Ø 20 x 60 mm
Water connector	R 1“
Water pressure	< 16 bar
Negative pressure	-1 bar for short time

Sensor:

Measuring range	0 to 100 W/m^2
Aperture angle	40° or 160°
Operation voltage	±5V, 5V, 12V or 24V
Measuring signal	0-2V, 0-10V, 0-20mA or 4-20 mA
Operation temp.	0 to 40 °C
Storage temperature	-10 to 40 °C

Part numbers

DVGW sensor	810320
ÖNORM sensor	810330
Measuring window tube	810323
Cap nut	810329
Sensor cable, 2m long	920310

Please give us the desired voltage, measuring signal, aperture angle as well as custom measuring range and cable length if necessary.

Dr. Gröbel UV-Elektronik GmbH
Goethestraße 17
D-76275 Ettlingen
Germany

Dr. Gröbel
UV-Elektronik GmbH
we apply photonics.

Phone: +49-7243-718390
Fax: +49-7243-71839300
Internet: http://www.uv-groebel.com
e-mail: info@uv-groebel.de