Notes

Arcus-EDS GmbH
Rigaer Str. 88
10247 Berlin

Email: sales@arcus-eds.de
Tel.: +49(0)30/25933914
Fax: +49(0)30/25933915

www.arcus-eds.de

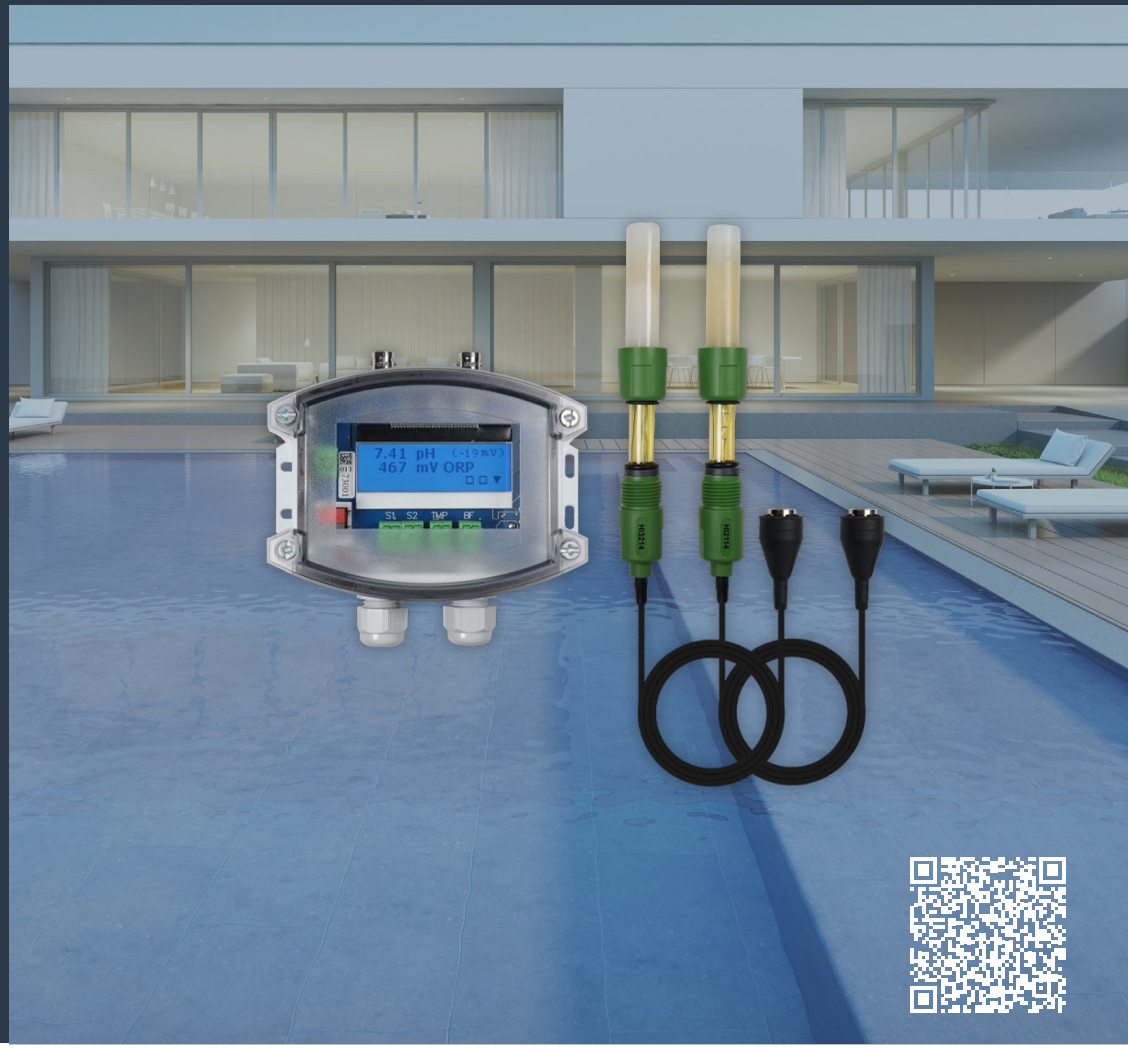
arcus-eds electronic design services KNX

KNX Water Quality Sensor System

S8 - Physical and Chemical Measurement

SK80-WAQ-MES

Water Values pH & ORP



arcus-eds electronic design services KNX

SK80-WAQ

Water Quality Sensor
pH & ORP

Integrate Water Quality in your KNX System

Whether it is in a private pool, hotel facilities, animal husbandry, or technical water systems — stable water quality is crucial for safety, comfort, and longevity. Our KNX water quality sensor continuously measures pH value, redox potential (ORP), and water temperature, integrating the data directly into your building automation system. The result: reliable monitoring, automatic control of dosing systems, and optimized maintenance.

pH & ORP — Water Quality Key Values

- **pH value**: Indicates how acidic or basic the water is. A stable pH value is crucial for the effectiveness of disinfectants, the protection of technical components, and the well-being of humans and animals.
- **Redox potential (ORP)**: Shows the water's ability to oxidize organic contaminants – for example, to neutralize germs and bacteria. A stable ORP value is a reliable indicator of disinfection performance.

SK80-WAQ

Water Values:
pH
ORP

Optional:
Water Temperature
(connect additional PT1000 Sensor, e.g. GTF-PT1000-TPE / Item no 90100057)

SK80-WAQ-MES
Item no: 30802101

SK80-WAQ with Integrated Display

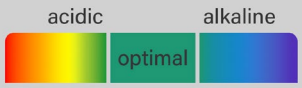
The latest generation of our water quality sensor features an integrated display – for greater transparency directly on-site:

- Real-time display of current pH and ORP values on the device.
- On-sensor support for calibration.
- IP54 housing for use in humid or demanding environments.

Typical Applications

- **Pools and Hot Tubs**: Automatic control for clear, hygienic water.
- **Hotels and Wellness Areas**: Reliable water values in swimming pools, saunas, and spa facilities.
- **Aquariums, Zoos, and Water Management**: Protecting animals, plants, and equipment through stable water conditions.
- **Commercial and Industrial Facilities**: Preventing corrosion or deposits through precise pH and ORP regulation.

pH value and ORP - matched to the application



Use Case	Typical ORP Range*
Swimming Pool	650-750 mV
Aquarium	250-450 mV variable
Industrial Process Water	variable

Optimal water quality depends on the application.
pH and ORP should be evaluated and adjusted in combination.

* ORP ranges are indicative only and must be verified for the specific application.