



Online Instrumentation for Water Analysis



## Transmitters & Sensors

Conductivity  
Resistivity  
Dissolved Oxygen  
pH  
Redox Potential (ORP)

Resistivity/  
Conductivity

Conductivity

AMU Rescon



AMU-II Powercon



AMU-II Pharmacon



Transmitters

Application

High Purity Water

Water Steam Cycles

Purified water (PW) and water for injection (WFI) in Pharmaceutical Applications

Sensor Connections

Two-electrode sensor with built-in NTC temperature probe

Two-electrode conductivity sensor with integrated Pt1000 temperature sensor

Two-electrode sensor with integrated Pt1000 temperature probe  
Selectable for various different sample properties

Temperature Compensations

Selectable for various different sample properties

Selectable for various different sample properties

Displays uncompensated and temperature-compensated (25°C) conductivity simultaneously

Measurement Parameters

- ▶ Specific Conductivity 0.055 to 1000 μS/cm
- ▶ Resistivity 0.001 to 200 MΩ/cm

- ▶ Specific Conductivity 0.055 μS/cm to 30 mS/cm

- ▶ Specific Conductivity 0.005 to 2000 μS/cm

Languages Available

Chinese, English, French, German, Spanish

Power Supply only for Powercon & Pharmacon

AC Version: 100-240 VAC, DC Version: 10-36 VDC

Sensors

RC U



UP-CON1000



Retracon



Pharmacon



Accuracy

± 0.5 % up to 20 μS/cm  
± 0.5 % up to 20 MΩ/cm

± 1 % or ± 0.001 μS/cm      ± 1 % or ± 0.02 μS/cm

± 2 % up to 500 μS/cm  
± 3 % above 500 μS/cm

Miscellaneous

Titanium electrode

Stainless steel electrode for applications with retractable wet-tap valve

1 1/2" sanitary clamp or 3/4" NPT thread connection

## AMU Inducon



**Chemical, Food & Dairy, Refinery, Pulp & Paper, Metal Finishing and Wastewater**

Inductive (toroidal) conductivity sensor with built-in Pt1000 temperature probe

With selectable coefficient or nonlinear function for natural waters according to EN 27888/DIN 38404

- ▶ **Conductivity**  
0.1 to 2000 mS/cm
- ▶ **NaCl, NaOH and acids**  
Concentration in %
- ▶ **Salinity as NaCl**  
Concentration in %
- ▶ **TDS as NaCl**  
Concentration in %

## AMU Solicon 4



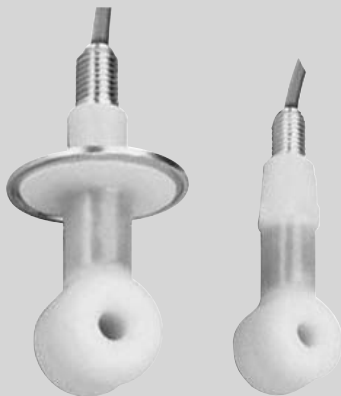
**Surface-, Potable- and Cooling Water**

Four-electrode conductivity sensor with built-in Pt1000 temperature probe

With selectable coefficient or nonlinear function for natural waters according to EN 27888/DIN 38404

- ▶ **Conductivity**  
0.055 µS/cm to 100 mS/cm

## Inducon1000



± 0.01 %

PFA Teflon® with 2" sanitary clamp or polypropylene (PP) with ¾" NPT thread connection

## Shurecon P



± 1.5 % or  
± 0.2 µS/cm

Sample temperatures up to 90°C

## Shurecon S



± 1 % or  
± 0.2 µS/cm

Sample temperatures up to 120°C

## Dissolved Oxygen

### AMU Oxytrace



### High-Purity Water

Oxytrace G oxygen sensor with integrated NT5k temperature probe

Automatic compensation of temperature and air pressure

- ▶ **Oxygen Dissolved**  
0 ppb to 20 ppm
- ▶ **Saturation**  
0 to 200 %

### Oxytrace G



± 0,3 %

## Common features of Swan AMU Transmitters



**Dimensions** 96 x 96 x 120 mm (DIN 43700) - designed for panel installation in a Noryl® resin enclosure

**Input** Potential-free contact for hold, remote off or sample flow meter

**Output** Two scalable current outputs (0/4 - 20 mA)

**Alarm Contacts** Potential-free alarm contact as summary alarm indication for programmable alarm values and for instrument faults

**Contacts** Two potential-free contacts programmable as limit switch or PID-control

pH  
Redox Potential

AMU pH/Redox



Transmitter

Sensor  
Connections

pH or ORP sensor  
Reference Electrode  
Pt1000 temperature

Temperature  
Compensations

Automatic temperature compensations according  
to Nernst with or without correction functions

Measurement  
Parameters

Programmable values for pH buffer and redox  
calibration solutions

- ▶ **pH Range**  
0 to 14
- ▶ **Redox Potential (ORP)**  
-500 to +1500 mV

Sensors



Application

Potable Water,  
Swimming Pools

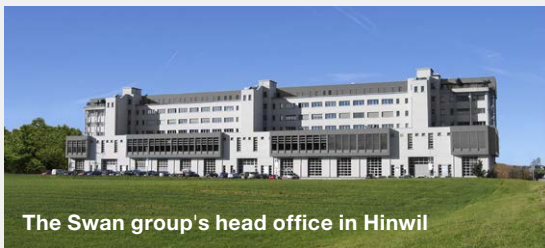
Waste Water

Power Plants

High Purity Water

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