



Online Instrumentation for Water Analysis



Transmitters & Sensors

Conductivity
Resistivity
Dissolved Oxygen
pH
Redox Potential (ORP)

Resistivity/
Conductivity

Conductivity

AMU Rescon



AMU Powercon



AMU Pharmacon



Transmitters

Application

High Purity Water

Water Steam Cycles

Ultrapure Water and WFI in
Pharmaceutical Applications

Sensor
Connections

Two-electrode sensor with
built-in NTC temperature probe

Two-electrode sensor with
built-in NTC temperature probe

Two-electrode sensor with
integrated Pt1000 temperature
probe

Temperature
Compensations

Selectable for various different
sample properties

Selectable for various different
sample properties

Selectable for various different
sample properties

Measurement
Parameters

- ▶ **Specific Conductivity**
0.055 to 1000 $\mu\text{S}/\text{cm}$
- ▶ **Resistivity**
0.001 to 200 $\text{M}\Omega/\text{cm}$

- ▶ **Specific Conductivity**
0.055 to 1000 $\mu\text{S}/\text{cm}$

- ▶ **Specific Conductivity**
0.055 to 2000 $\mu\text{S}/\text{cm}$

Sensors

RC U



UP-CON1000



Retracon



Pharmacon



Accuracy

$\pm 0.5\%$ up to 20 $\mu\text{S}/\text{cm}$
 $\pm 0.5\%$ up to 20 $\text{M}\Omega/\text{cm}$

$\pm 1\%$ or
 $\pm 0.001\ \mu\text{S}/\text{cm}$ $\pm 1\%$ or
 $\pm 0.02\ \mu\text{S}/\text{cm}$

$\pm 2\%$ up to 500 $\mu\text{S}/\text{cm}$
 $\pm 3\%$ above 500 $\mu\text{S}/\text{cm}$

Miscellaneous

Titanium
electrode Stainless steel
electrode for
applications
with retrac-
table 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



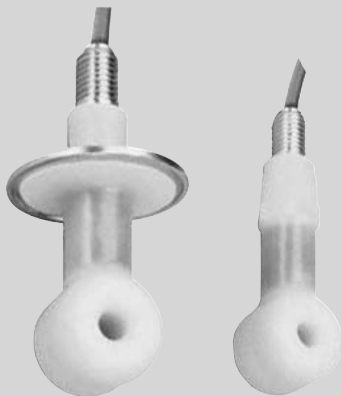
Surface-, Potable- and Cooling Water

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

- ▶ **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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