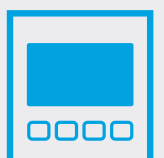




Transmitters, Sensors
and Flow Cells



Conductivity

Application

Water Steam Cycles,
Water Treatments

Purified Water (PW) and
Water for Injection (WFI) in
Pharmaceutical Applications



Transmitters

AMU-II Powercon

Sensor

- Two-electrode sensor with integrated Pt1000 temperature probe

AMU-II Pharmacon

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

Temperature Compensations

- Selectable for various different sample properties

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

Measurement Parameters

Conductivity

0.055 $\mu\text{S}/\text{cm}$ to 30 mS/cm

Conductivity

0.005 to 2000 $\mu\text{S}/\text{cm}$

Sensors



Flow Cells



Accuracy

$\pm 1\%$ 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

Titan electrode
with $\frac{3}{4}$ " NPT
thread connection

Stainless steel
electrode for
applications with
retractable wet-tap
valve $\frac{3}{4}$ " NPT
thread connection

$1\frac{1}{2}$ " Tri-Clamp or
 $\frac{3}{4}$ " NPT thread connection

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

Surface-, Potable- and Cooling Water



Transmitters **AMU Toricon**

Sensor Connections • Inductive (toroidal) sensor with built-in Pt1000 temperature probe

Temperature Compensations • With selectable coefficient or non-linear function for natural waters according to EN 27888/DIN 38404

Measurement Parameters **Conductivity** 0.2 to 2000 mS/cm
Optional conversion **Salinity as NaCl** Concentration in %
NaCl, NaOH and acids **TDS as NaCl** Concentration in %
Concentration in %



Flow Cells

Accuracy ± 0.01 %

Miscellaneous PFA Teflon® with 2" sanitary clamp or poly-propylene (PP) with ¾" NPT thread connection

AMU Solicon4

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

• With selectable coefficient or non-linear function for natural waters according to EN 27888/DIN 38404

Conductivity 0.055 µS/cm to 100 mS/cm
NaCl, NaOH and acids **Salinity as NaCl** Concentration in %
Concentration in % **TDS as NaCl** Concentration in %



± 1.5 % or ± 0.2 µS/cm ± 1 % or ± 0.2 µS/cm

Sample temperatures up to 90°C (Inline) Sample temperatures up to 120°C (Inline) 1" thread

Resistivity/ Conductivity

Application High Purity Water



Transmitters **AMU-II Rescon**

Sensor
Connections

- Two-electrode sensor with built-in NT5k temperature probe

Temperature
Compensations

- Selectable for different sample properties

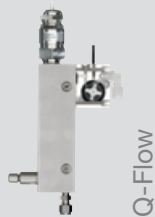
Measurement
Parameters

Specific Conductivity
0.055 to 1000 μ S/cm
Resistivity
0.001 to 200 M Ω /cm

Sensors



Flow Cells



Accuracy $\pm 0.5\%$ up to 20 μ S/cm
 $\pm 0.5\%$ up to 20 M Ω /cm

Miscellaneous Sample temperatures
up to 90°C (Inline)
3/4" NPT thread connection

Dissolved Oxygen

High Purity Water



AMU-II Oxytrace

- 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 %



$\pm 0.3\%$

pH Redox Potential

Application Various Applications



Transmitters **AMU-II pH/Redox**

Sensor
Connections

- pH or ORP sensor with Reference electrode and Pt1000 temperature probe

Temperature
Compensations

- Automatic temperature compensations according to Nernst or without correction functions
- Programmable values for pH buffer and redox calibration solutions

Measurement
Parameters

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

Sensors



Flow Cells



Applications

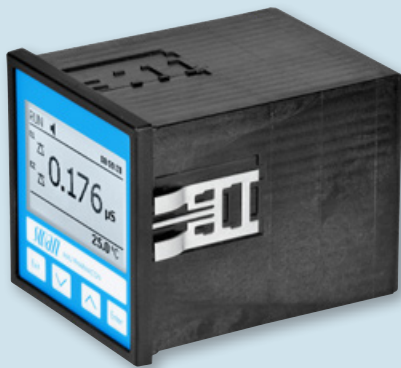
Potable Water,
Swimming
Pools

Wastewater,
Cooling Water

Power
Plants

High Purity
Water

Common features of Swan AMU and AMU-II Transmitters




Dimensions	92 × 92 × 120 mm (DIN IEC 61554:2002-08) – designed for panel installation in a Noryl® resin enclosure
Input	<ul style="list-style-type: none">• Potential-free contact for hold, remote off or sample flow meter
Output	<ul style="list-style-type: none">• Two scalable current outputs (0/4-20 mA)• AC Version: 100-240 VAC• DC Version: 10-36 VDC
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
Languages for AMU-II	Chinese, English, French, German, Spanish

Swan AMU Transmitter Concept



Swan instruments are delivered as fully functional, ready-to-use instruments. This ensures easy system integration as well as user-friendly operation and maintainability.

Highest standards in development and production assure the instrument quality expected by our customers.

 **MADE IN
SWITZERLAND**

Full System Integration

- The size of the transmitter complies with DIN IEC 61554:2002-08 which allows it to be mounted in control panels easily
- The transmitter case is produced from Noryl® resin and its front panel has a IP54 protection
- Various communication possibilities with Profibus, Modbus, HART-Protocol and USB-interface
- Simple process engineering with regulation functions (P, PI, PID or PD), relay or analog output

Instrument Features

- Uniform menu navigation for easy operation – one platform for all instruments
- The user interface with intuitive on-screen instructions is available in 5 different languages
- Large, backlit LC display and simple menu-driven operation allows easy reading
- The self-explanatory maintenance procedures can be easily performed by the operating company

Swan Customers Service and Maintenance

Expert Training and Maintenance

- Flexible on-demand or scheduled maintenance services
- Expert re-calibration and re-certification options
- Comprehensive product trainings to boost your team's expertise

After-Sales Support

- Skilled engineers ready to assist with any technical request
- Scheduled maintenance visits to prevent downtime
- Fast, reliable service — on-site or remote

Genuine Parts and Repairs

- On-demand service including delivery of spare parts and consumables
- Authentic Swan sensors, reagents, and components
- Convenient send-in repairs at regional Swan workshops





- Swan Headquarters
- Swan Subsidiaries
- Distributors

We make water safe.

