







Conductivity

Application Water Steam Cycles, Water Treatments



Transmitters

AMU-II Powercon

- Sensor
- Two-electrode sensor with integrated Pt1000 temperature probe

Temperature Compensations

• Selectable for various different sample properties

Measurement Parameters

Sensors



Accuracy

Flow Cells

± 1 % or ± 0.001 µS/cm

Miscellaneous Titan electrode with ³/₄" NPT thread connection

Titan electrode
with ¾" NPTStainless steel
electrode for
applications with
retractable wet-tap
valve ¾" NPT
thread connection

±1% or

 $\pm 0.02 \,\mu\text{S/cm}$

Retracon

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



AMU-II Pharmacon

- Two-electrode sensor with integrated Pt1000 temperature probe
- Selectable for different sample properties
- Displays uncompensated and temperature-compensated (25°C) conductivity simultaneously

Conductivity 0.005 to 2000 µS/cm



 \pm 2 % up to 500 µS/cm \pm 3 % above 500 µS/cm

1½" Tri-Clamp or¾" NPT thread connection

Application

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



Transmitters

Sensor

Connections

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

Temperature Compensations

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

Salinity as NaCl

TDS as NaCl

Concentration in %

Concentration in %

Measurement Conductivity Parameters 0.1 to 2000 mS/cm Optional NaCl, NaOH and acids Concentration in %

AMU Inducon

Sensors

conversion



Flow Cells

Accuracy	±	0.01	%
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Miscellaneous

PFA Teflon[®] with 2" sanitary clamp or poly-propylene (PP) with 3/4" NPT thread connection

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



AMU Solicon4

- Four-electrode sensor with built-in Pt1000 temperature probe
- With selectable coefficient or nonlinear function for natural waters according to EN 27888/DIN 38404

Conductivity
$0.055\mu\text{S/cm}$ to 100mS/cm
NaCl, NaOH and acids
Concentration in %

Salinity as NaCl n Concentration in % TDS as NaCl Concentration in %



± 1.5 % or ± 0.2 µS/cm

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

±1% or ± 0.2 µS/cm

Shurecon

M-Flow



Resistivity/ Conductivity

Application High Purity Water

Dissolved Oxygen

High Purity Water



Transmitters

AMU Rescon

Sensor Connections • Two-electrode sensor with built-in NT5k temperature probe

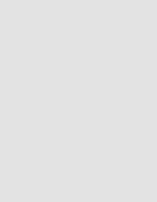
Temperature Compensations Selectable for different sample properties

Measurement Parameters

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

³/₄" NPT thread connection







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 %



± 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

Redox A

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

Sensors

Flow Cells







oH/Redox

B-Flow





High Purity Water



Applications Potable Water, Swimming Pools

Wastewater, Cooling Water

Power Plants

Common features of Swan AMU and AMU-II Transmitters



Dimensions	92 \times 92 \times 120 mm (DIN IEC 61554:2002-08) – designed for panel installation in a Noryl $^{\mbox{\tiny @}}$ resin enclosure
Input	 Potential-free contact for hold, remote off or sample flow meter
Output	 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.

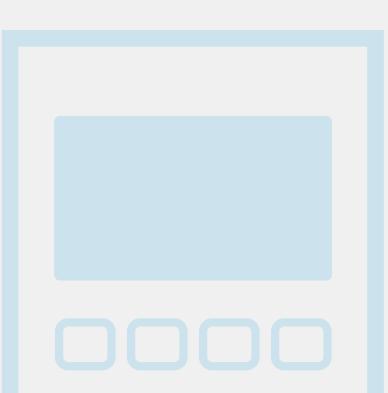


Full System Integration

- 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 menudriven operation allows easy reading
- The self-explanatory maintenance procedures can be easily performed by the operating company









- Distributors

