

По вопросам продаж и поддержки обращайтесь:

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Ижевск (3412)26-03-58	Орел (4862)44-53-42	Ульяновск (8422)24-23-59
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Единый адрес: snw@nt-rt.ru **Веб-сайт:** www.swan.nt-rt.ru

Измерители AMI INSPECTOR Resistivity SWAN. Техническое описание

Portable inspection equipment for quality assurance of resistivity monitors.

AMI INSPECTOR Resistivity

Complete portable system mounted on small, aluminum panel:

- **Transmitter AMI INSPECTOR Resistivity** in a rugged aluminum enclosure (IP 66).
- **Swansensor RC-U** high precision two-wire electrode made of stainless steel with integrated NTC temperature probe.
- **Flow cell QV-HFlow** made of stainless steel with flow adjustment valve and digital, high-temperature sample flow meter.
- Rechargeable battery for stand-alone operation.
- Carrying case
- USB Stick for data logging.
- Factory tested, ready for installation and operation.



Specifications:

- Resistivity measurement range: 0.01 to 18.18 MΩ-cm
- Big LC display for the reading of measuring value, sample temperature, sample flow, temperature compensation type, operating status and battery charge condition.
- Easy user menus in English, German, French and Spanish. Simple programming of all parameters by keypad.
- Wide range of selectable temperature compensations for different sample conditions.
- Electronic record of major process events and calibration data.
- Data logger for 1'500 data records stored at a selectable interval.
- One current output (0/4 - 20 mA) for measured signal.

Optional:

- Instrument certificate

Order Nr.	AMI INSPECTOR Resistivity	A-75.300.000
Option:	☐ Instrument certificate	A-97.017.300

Resistivity Measurement

Swansensor RC-U ($k = 0.01 \text{ cm}^{-1}$) with integrated NT5K temperature probe.

Measuring range	Resolution
0.01 to 18.18 MΩ-cm	0.01 MΩ-cm
Automatic range switching.	

Accuracy: $\pm 0.5 \%$

Temperature compensations

- High purity water (non-linear)
- Neutral salts (NaCl)
- Strong acids (HCl)
- Strong bases (NaOH)
- Ammonia, Ethanolamine
- Morpholine
- Linear coefficient in %/°C
- Absolute (no compensation)

Temperature measurement

Measuring range: -30 to +130 °C
Resolution: 0.1 °C

Sample flow measurement

with digital SWAN sample flow sensor for extended temperature range.

Transmitter Specifications and Functionality

Electronics case: Cast aluminum
Protection degree: IP 66 / NEMA 4X
Display: LCD, 75 x 45 mm
Electrical connectors: screw clamps
Dimensions: 180 x 140 x 70 mm
Weight: 1.5 kg
Ambient temperature: -10 to +50°C
Humidity: 10 - 90% rel., non condensing

Power supply - Battery

Use original power adapter only.
Voltage: 85 - 265 VAC, 50/60 Hz
Power consumption: max. 20 VA
Charging time: ~ 6h
Battery type: Li-Ion
During charging protect from heat impact
and keep splash-proof (not IP66).

Operating time

Stand-alone (Battery): > 24h
Connected adapter: continuous
Controlled shut-down when battery is
empty, remaining time displayed.

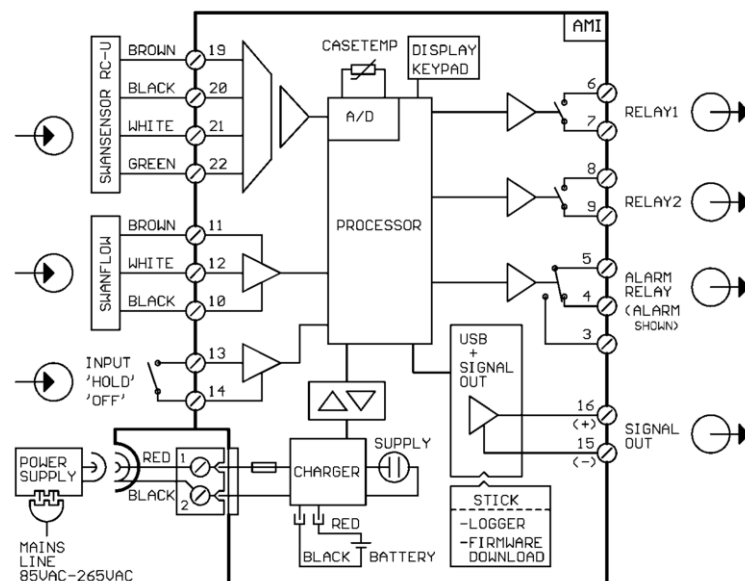
Operation

Easy operation based on separate menus for "Messages", "Diagnostics", "Maintenance", "Operation" and "Installation". User menus in English, German, French and Spanish.

Separate menu specific password protection.

Display of process value, sample flow, alarm status, time and battery charge condition.

Electrical Connection Scheme



Storage of event log, alarm log and calibration history.
Storage of the last 1'500 data records in logger with selectable time interval.

Safety features

No data loss after power failure, all data is saved in non-volatile memory.
Overvoltage protection of in- and outputs.
Galvanic separation of measuring inputs and signal outputs.

Transmitter temperature monitoring
with programmable high/low alarm limits.

1 Alarm relay

One potential free contact for summary alarm indication for programmable alarm values and instrument errors.
Maximum load: 1A / 250 VAC

1 Input

One input for potential-free contact.
Programmable hold or remote off function.

2 Relay outputs

Two potential-free contacts programmable as limit switches for measuring values, controllers or timer for system cleaning with automatic hold function.

Rated load: 100 mA / 50 V

1 Signal outputs

One programmable signal output for measured value (freely scalable, linear or bilinear) or as continuous control outputs (control parameters programmable).

Current loop: 0/4 - 20 mA

Maximum burden: 510 Ω

Control functions

Relays or current outputs programmable for 1 or 2 pulse dosing pumps, sole-noid valves or for one motor valve.
Programmable P, PI, PID or PD control parameters.

1 Communication interface

USB Stick for logger data.

Monitor Data

Sample conditions

Flow rate:	70 to 100 L/h
Temperature:	up to 95 °C
Inlet pressure (25 °C):	up to 2 bar
Outlet pressure:	pressure free
No sand, no oil	

Flow cell and connections

Flow cell made of stainless steel with built-in flow adjustment valve and digital sample flow meter.

Inlet: 1/4" Swagelok tube adapter
Outlet: flexible tube adapter 8 x 6 mm

Panel

Dimensions: 275 x 320x 240 mm
 Material: anodized aluminum
 Total weight: 4.5 kg

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