Data sheet No. DenA753100000

Portable inspection equipment for quality assurance of conductivity monitors.

AMI INSPECTOR Conductivity

Complete portable system mounted on small, aluminum panel:

- Transmitter AMI INSPECTOR Conductivity in a rugged aluminum enclosure (IP 66).
- Swansensor UP-Con1000-SL two-electrode conductivity sensor with slot-lock design and integrated Pt1000 temperature probe.
- Flow cell QV-Flow UP-CON-SL made of stainless steel with flow adjustment valve and digital sample flow meter. Quick sensor release with patented slot-lock design.
- Rechargeable battery for stand-alone operation.
- Carrying case
- USB Stick for data logging.
- Factory tested, ready for installation and operation.

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Specifications:

- Conductivity measurement range: 0.055 µS/cm to 30 mS/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 Conductivity	A-75.310.000
Option:	[] Instrument certificate	A-97.017.310



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Conductivity Measurement

Swansensor UP-Con1000-SL with integrated Pt1000 temperature probe $(k = 0.0415 \text{ cm}^{-1}).$

Measuring range Resolution 0.055 to 0.999 µS/cm 0.001 µS/cm 1.00 to $9.99 \mu S/cm$ 0.01 µS/cm 10.0 to 99.9 µS/cm 0.1 µS/cm 100 to 999 µS/cm 1 µS/cm 1.00 to 2.99 mS/cm 0.01 mS/cm 3.0 to 9.9 mS/cm 0.1 mS/cm 10 to 30 mS/cm 1 mS/cm Automatic range switching

Accuracy

± 1 % of measured value or ± 1 digit (whichever is greater).

Temperature compensations

- -Non linear function (NLF) for high purity water
- -Neutral salts
- -Strong acids
- -Strong bases
- -Ammonia, Ethanolamine
- -Morpholine
- -Linear coefficient in %/°C
- -Absolute (none)

Temperature measurement

-30 to +130 °C tion. Measuring range: Resolution:

Sample flow measurement

with digital SWAN sample flow sensor.

Transmitter Specifications and Functionality

Electronics case: Protection degree: Display: Electrical connectors: 180 x 140 x 70 mm and signal outputs. Dimensions: 1.5 kg Weight: Ambient temperature: -10 to +50°C Humidity: 10 - 90% rel., non condensing with programmable high/low alarm limits.

Power supply - Battery

Use original power adapter only. Voltage: Power consumption: Charging time: Li-Ion Battery type: During charging protect from heat impact

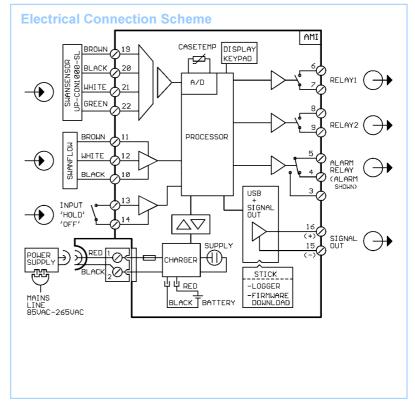
and keep splash-proof (not IP66).

Operating time

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

Operation

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



Separate menu specific password protec- 1 Signal output

0.1 °C Display of process value, sample flow, alarm status, time and battery charge condition

> 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

Cast aluminum No data loss after power failure, all data IP 66 / NEMA 4X is saved in non-volatile memory. LCD, 75 x 45 mm Overvoltage protection of in- and outputs. screw clamps Galvanic separation of measuring inputs

Transmitter temperature monitoring

1 Alarm relay

One potential free contact for summary 85 - 265 VAC, 50/60 Hz alarm indication for programmable alarm max. 20 VA values and instrument errors

~ 6h Maximum load: 1A / 250 VAC

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

continuous 2 Relay outputs

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

100 mA / 50 V

One programmable signal output for measured value (freely scaleable, linear or bilinear) or as continuous control outputs (control parameters programmable). Current loop: 0/4 - 20 mAMaximum 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: 5 to 20 L/h Temperature: up to 50 °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. Quick sensor re-lease with patented slot-lock design.

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

Panel

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