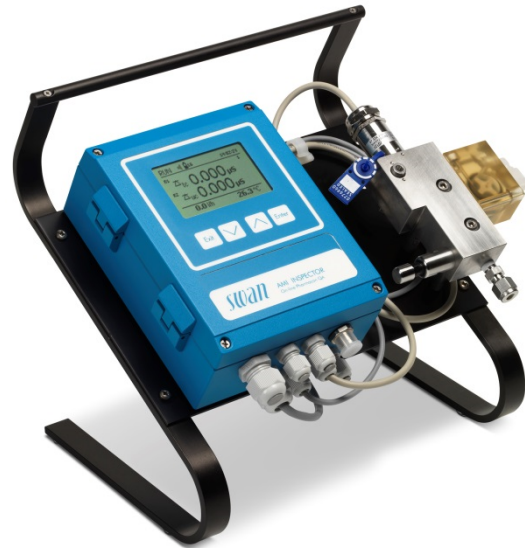


Portable inspection equipment for quality assurance of conductivity in pharma water.

AMI INSPECTOR Pharmacon

Complete portable system mounted on small, aluminum panel:

- **Transmitter AMI INSPECTOR Pharmacon** 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, high-temperature 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.



Specifications:

- Conductivity measurement range: 0.055 to 2000 $\mu\text{S}/\text{cm}$
- 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 no.	AMI INSPECTOR Pharmacon	A-75.311.000
Option:	<input type="checkbox"/> Instrument certificate	A-97.017.311

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 $\mu\text{S/cm}$	0.001 $\mu\text{S/cm}$
1.00 to 9.99 $\mu\text{S/cm}$	0.01 $\mu\text{S/cm}$
10.0 to 199.9 $\mu\text{S/cm}$	0.1 $\mu\text{S/cm}$
200 to 2000 $\mu\text{S/cm}$	1 $\mu\text{S/cm}$

Automatic range switching.

System accuracy

0.05 to 500 $\mu\text{S/cm}$	$\pm 2 \%$
500 to 2000 $\mu\text{S/cm}$	$\pm 3 \%$

or $\pm 0.001 \mu\text{S/cm}$ whichever is greater.

Temperature compensations

- Absolute (none)
- Non linear function (NLF) for high purity water
- Linear coefficient 0.00 – 10.00 $\%/^{\circ}\text{C}$
- Various chemicals

Temperature measurement

Measuring range: -30 to +130 $^{\circ}\text{C}$
Resolution: 0.1 $^{\circ}\text{C}$

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 $^{\circ}\text{C}$
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).

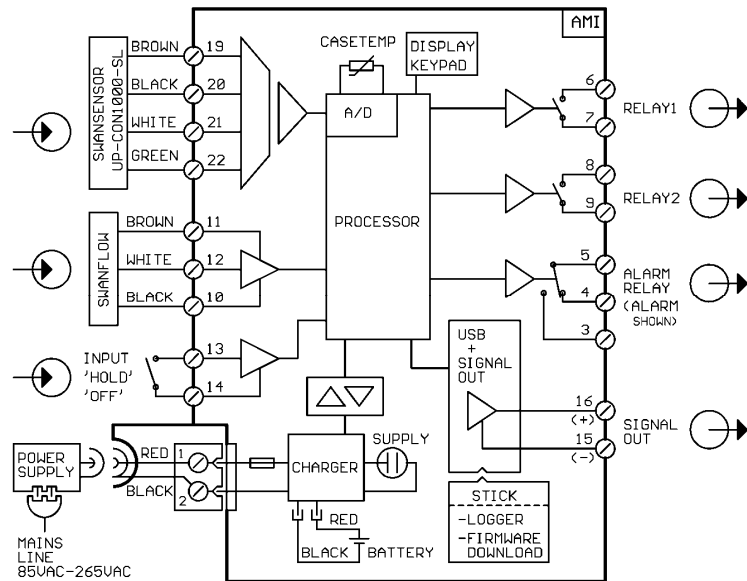
Operating time

Stand-alone (Battery):	> 24h
Connected adapter:	continuous

Controlled shut-down when battery is empty, remaining time is displayed.

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

Electrical Connection Scheme



Separate menu specific password protection.
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
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 output
One programmable signal output for measured value (freely scalable, linear or bilinear) or as continuous control output (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, solenoid 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 95 $^{\circ}\text{C}$
Inlet pressure (25 $^{\circ}\text{C}$):	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