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AMI INSPECTOR
pH
Data sheet No. DenA751000000

Portable inspection equipment for quality assurance of pH monitors.

AMI INSPECTOR pH

Complete portable system mounted on small, aluminum panel:

- **Transmitter AMI INSPECTOR pH**
  in a rugged aluminum enclosure (IP 66).
- **Swansensor pH SI** combined electrode with liquid electrolyte.
- **Flow cell QV-Flow IS1000** made of stainless steel with quick release vessel, flow adjustment valve, digital sample flow meter and temperature sensor.
- Rechargeable battery for stand-alone operation.
- Carrying case
- USB Stick for data logging.
- Factory tested, ready for installation and operation.

Specifications:

- Measuring range: 1 to 12 pH
- 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.
- 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 pH	A–75.100.000
Option:	[ ] Instrument certificate	A-97.017.100

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pH Measurement

Swansensor pH SI combined electrode with liquid electrolyte.

Measuring range	Resolution
pH 1 to pH 12	0.01 pH

Temperature measurement Pt1000
Measuring range: -30 to +130 °C
Resolution: 0.1 °C

Sample flow measurement
with digital SWAN sample flow sensor.

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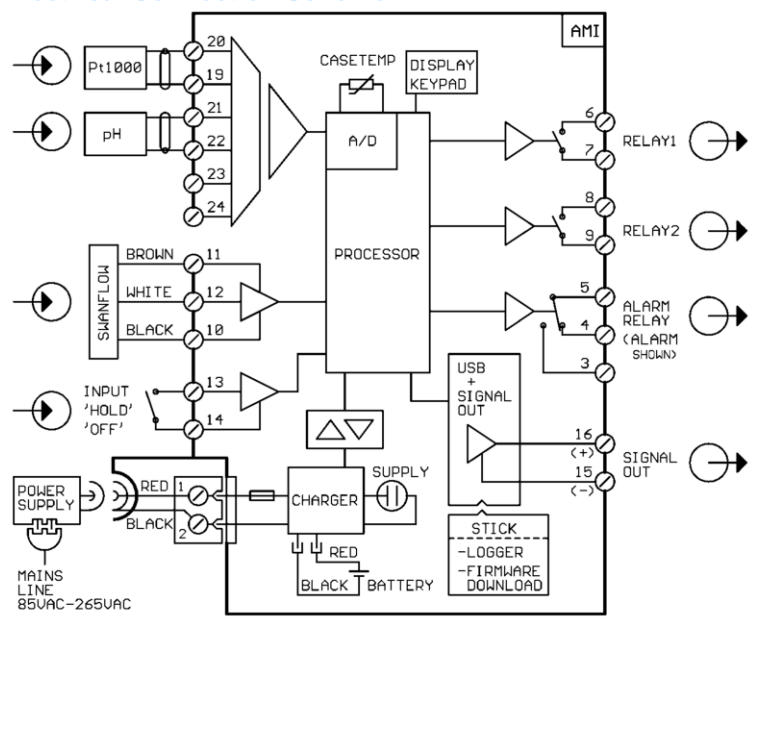Controlled shut-down when battery is empty, remaining time is displayed.

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.
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.

Electrical Connection Scheme

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 outputs (control parameters programmable).
Current loop: 0/4 - 20 mA
Maximum burden: 510 Ω

Control functions
Relays or current output 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 10 L/h
Temperature: up to 50 °C
Inlet pressure (25 °C):   0.2 to 2 bar
Outlet pressure: pressure free
No sand, no oil

Flow cell and connections
Flow cell made of stainless steel with quick release vessel, with built-in flow adjustment valve and digital sample flow meter.

Inlet: ¼" Swagelok tube adapter
Outlet: Ø 16 mm, tubing 15 x 20 mm

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