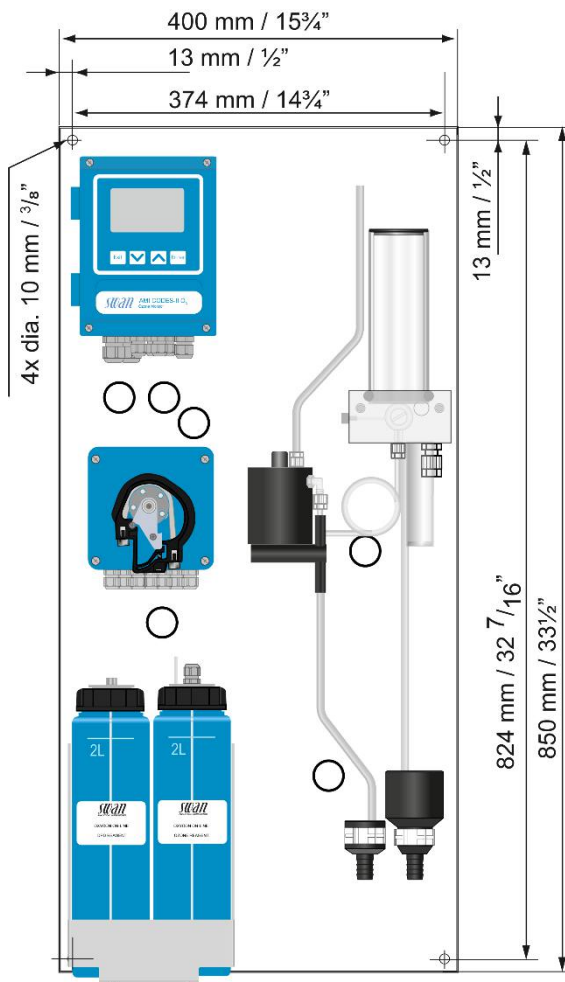


Complete monitoring system for the automatic, continuous measurement of ozone in pharma water and industrial high purity water applications.

Monitor AMI Codes-II O₃

- For the continuous online determination of ozone based on the DPD colorimetric method (DIN 38404-3).
- Measuring range: 0 to 500 ppb
- Complete system including measurement and control electronics, photometer, flow indicator, reaction chamber, reagent dosing system and reagent containers.
- All usual dosing devices for disinfectants control can be connected either through relays or analog output signals. Two independent controllers can operate simultaneously.
- Dosing of disinfectant can be interrupted automatically with an external signal.
- Alarm display and activation of alarm relay when user defined, critical limits for a measurement value are reached.
- Continuous, automatic monitoring of main instrument functions (dirty photometer, sample flow, reagents).
- Large back-lit LCD display showing all measured values and status information simultaneously.
- Factory tested, ready for installation and operation.
- Specific features for pharmaceutical industry: Audit Trail, Performance verification and a Validation Package.



Accessories:

- Validation Package (IQ, OQ, PQ)
- Verification Kit

Instrument Option:

- Communication interface

Order Nr.	Monitor AMI Codes-II O ₃ AC	A-25.441.300.0
	Monitor AMI Codes-II O ₃ DC	A-25.442.300.0
Option:	<input type="checkbox"/> Profibus DP & Modbus RTU interface (RS-485)	A-81.420.020
	<input type="checkbox"/> USB interface	A-81.420.042
	<input type="checkbox"/> HART interface	A-81.420.060
Accessory:	<input type="checkbox"/> Validation Package	A-96.260.12x
Accessory:	<input type="checkbox"/> Verification Kit	A-85.151.300

Ozone measurement

Measuring range: 0 – 500 ppb
Accuracy: ± 1 ppb or 5% (whichever is greater)

Limit of detection: 1 ppb
Cycle time: 5 – 10 min. (default: 6 min)

Transmitter Specifications and Functionality

Electronics case: Aluminum
Protection degree: IP 66 / NEMA 4X
Display: backlit LCD, 75 x 45 mm
Electrical connectors: screw clamps
Ambient temperature: -10 to +50 °C
Limit range of operation: -25 to +65 °C
Storage and transport: -30 to +85 °C
Humidity: 10 to 90 % relative, non condensing

Power supply

Voltage:
AC version: 100 - 240 VAC (± 10 %), 50/60 Hz (± 5 %)
DC version: 10-36 VDC
Power consumption: max. 35 VA

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, alarm status and time during operation.

Storage of event log, and 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. Over-voltage protection of in- and outputs.
Galvanic separation of measuring inputs and signal outputs.

Transmitter temperature monitoring

With programmable high/low alarm limits.

Real-time clock with calendar

For action time stamp and preprogrammed actions.

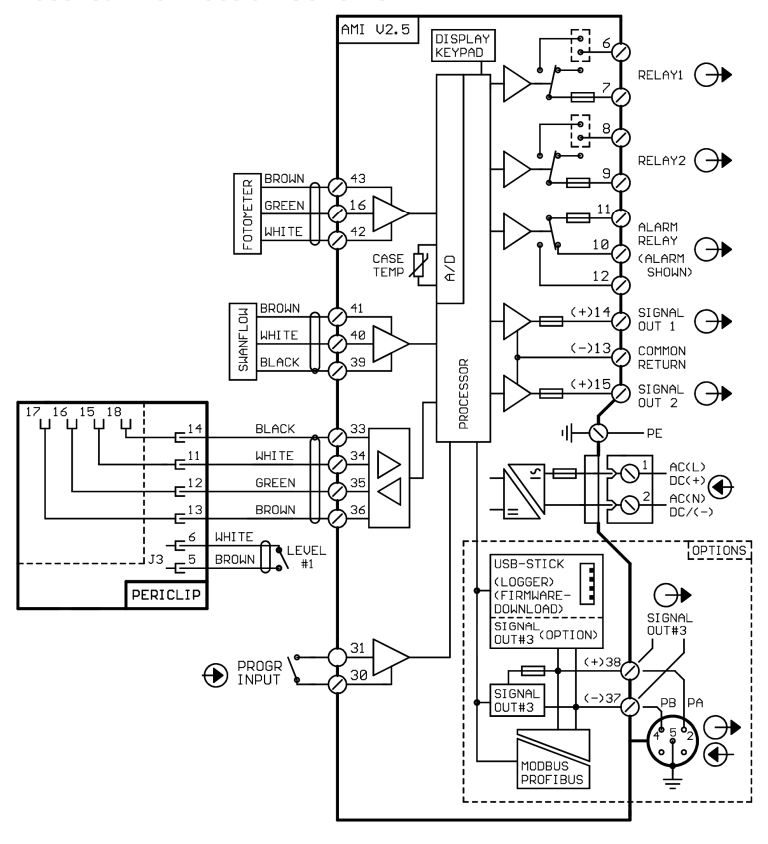
1 Alarm relay

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

1 Input

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

Electrical Connection Scheme



Monitor Data

Sample conditions

Water consumption: min. 10 l/h
Water inlet pressure: 0.15 to 2 bar
Sample temperature: 5 to 50 °C

Flow cell and connections

Made of acrylic glass with needle valve.
Inlet tubing: Serto PVDF 6mm (1/4" thread), for tubing 6x4 mm
Outlet pressure: atmospheric drain
Outlet tubing: 15 x 20 mm (1/2")

Panel

Panel dimensions: 400 x 850 x 200 mm
Panel material: stainless steel
Weight: 14.0 kg

2 Relay outputs

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

Rated load: 1A / 250 VAC

2 Signal outputs

Two programmable signal outputs for measured values (freely scaleable, linear or bilinear) or as continuous control outputs (control parameters programmable) as current source. 3rd signal output selectable as current source or current sink.

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 (option)

- RS485 interface (galvanically separated) with Fieldbus protocol Modbus RTU or Profibus DP
- USB interface
- HART interface