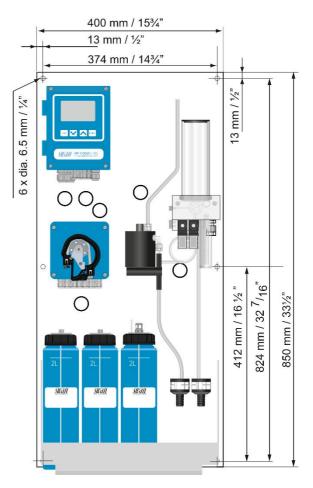


swan@swan.ch · www.swan.ch

Complete monitoring system for the automatic, continuous measurement of free chlorine, monochloramine, total residual chlorine and combined chlorine in potable water, sanitary water and effluent.

Monitor AMI Codes-II CC

- For the continuous online determination of disinfectants based on the DPD colorimetric method (EN ISO 7393-2; APHA 4500-CI G).
- Measurement values: free chlorine, monochloramine, total residual chlorine, combined chlorine, flow and if installed pH and temperature.
- Also applicable for water containing additives like cyanuric acid.
- Complete system including measurement and control electronics, photometer, flow indicator, reaction chamber, reagent dosing system and reagent containers.
- Integrated pH measurement with temperature compensation (available as option).
- All usual dosing devices for disinfectants and pH 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, e.g. during sample flow interruption or filter backwashing.
- Two (optionally three) selectable measurement values are available as analog output signals.
- 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.



Options:

- · Communication interface
- pH option containing pH sensor, temperature sensor, cables and electronics board.

Accessory:

• Chemical cleaning module. For details please see separate data sheet no. DenA82312000.

Order Nr.	Monitor AMI Codes-II CC AC	A-25.441.700.0
	Monitor AMI Codes-II CC DC	A-25.442.700.0
Option:	[] 3 rd current signal output (0/4 – 20mA)	A-81.420.050
	[] Profibus DP & Modbus RTU interface (RS-485)	A-81.420.020
	[] USB interface	A-81.420.042
Option:	[] pH and temperature measurement	A-87.127.020



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Monitor AMI Codes-II CC

Data sheet no. DenA2544X7000

Free chlorine, monochloramine, total residual chlorine

Measuring range Accuracy 0.00 - 1.00 ppm \pm 0.01 ppm 1.00 - 3.00 ppm \pm 0.06 ppm 3.00 - 5.00 ppm \pm 0.2 ppm

Combined chlorine: calculated by the difference of total residual chlorine and free chlorine.

Measurement time: 2 min Cycle time free chlorine: Off, 1 - 12 min. Cycle time total chlorine: Off, 10 - 60 min.

pH measurement (option)

Measuring range: pH 2 - 12 Resolution: 0.01 pH

Temperature measurement (Option)

with Nt5k sensor

Measuring range: -30 to +100 °C Resolution: 0.1 °C

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.

Power supply

Voltage:

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

non condensing

Operation

Easy operation based on separate menfor "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.

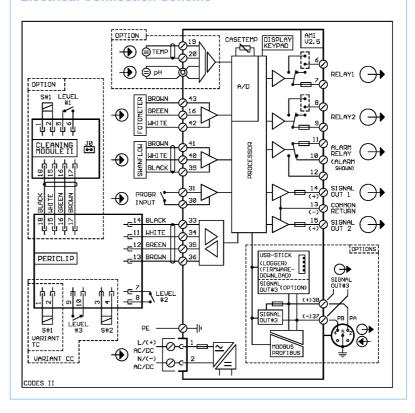
Safety features

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

Transmitter temperature monitoring

With programmable high/low alarm limits.

Electrical Connection Scheme



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. 10-36 VDC 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 valhold function.

1A / 250 VAC Rated load:

2 Signal outputs (3rd optional)

Two programmable signal outputs for measured values (freely scaleable, linear Panel or bilinear) or as continuous control out- Panel dimensions: puts (control parameters programmable) Panel material: as current source. 3rd signal output se- Weight: lectable as current source or current sink. Current loop: 0/4 - 20 mAMaximum burden:

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
- 3rd Signal output
- USB interface

Monitor Data

Sample conditions

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

Flow cell and connections

Made of acrylic glass with water inlet filter and needle valve.

ues, controllers or timer with automatic Openings for pH and temperature sensors.

> Inlet tubing: 6 x 8 mm Outlet pressure: atmospheric drain Outlet tubing: 15 x 20 mm (1/2")

400 x 850 x 200 mm **PVC** 12.0 kg