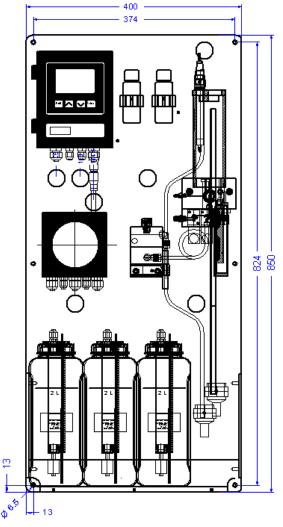
info@swan-analytical-usa.com

Data sheet no. DenA254417000

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	A-25.441.700.0
Option:	[] 3 rd current signal output (0/4 – 20mA)	A-81.410.020
	[] Profibus DP interface	A-81.420.020
	[] HyperTerminal interface (RS-232)	A-81.420.010
	[] Modbus interface	A-81.420.022
	[] USB interface	A-81.420.040
Option:	[] pH and temperature measurement	A-87.127.020



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Monitor AMI Codes-II CC

Data sheet no. DenA254417000

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

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

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

Power supply

Voltage:

50/60 Hz (± 5 %) or 24 VDC (± 10 %)

Power consumption:

Operation

Easy operation based on separate men- One input for potential-free contact. Profor "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 Rated load: and time during operation.

Storage of event log, and alarm log and 2 Signal outputs (3rd optional) calibration history.

Storage of the last 1'500 data records in logger with selectable time interval.

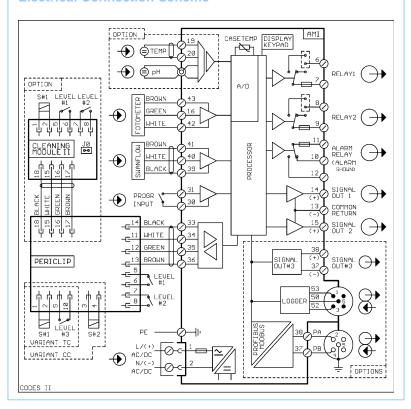
Safety features

No data loss after power failure, all data Maximum burden: 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.

Electrical Connection Scheme



Real-time clock with calendar

For action time stamp and preprogrammed actions.

1 Alarm relay

100 - 240 VAC (± 10 %), One potential free contact for summary alarm indication for programmable alarm values instrument faults. and max. 30 VA Maximum load: 1A / 250 VAC

1 Input

grammable hold or remote off function.

2 Relay outputs

Two potential-free contacts programmable as limit switches for measuring val- Flow cell and connections ues, controllers or timer with automatic Made of acrylic glass with water inlet filter hold function.

Two programmable signal outputs for Outlet pressure: measured values (freely scaleable, linear Outlet tubing: or bilinear) or as continuous control outputs (control parameters programmable). Current loop:

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)

- RS232 interface for logger download to PC with SWANTerminal
- RS485 interface (galvanically separated) with Fieldbus protocol Modbus or Profibus DP
- 3rd Signal output
- **USB** interface

Sample conditions

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

and needle valve.

1A / 250 VAC Openings for pH and temperature sensors.

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

Panel

0/4 - 20 mA Panel dimensions: 400 x 850 x 200 mm 510 Ω Panel material: **PVC** Weight: 12.0 kg