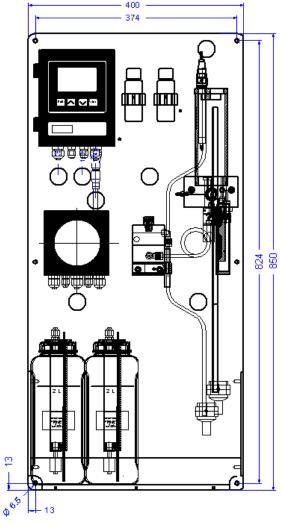
Data sheet no. DenA254416000

Complete monitoring system for the automatic, continuous measurement of total chlorine in potable water, sanitary water, cooling water and effluent.

Monitor AMI Codes-II TC

- For the continuous online determination of disinfectants based on the DPD colorimetric method (EN ISO 7393-2; APHA 4500-CI G).
- Measurement values: total chlorine 1, total chlorine 2, calculated dichloramine, flow and if installed pH and temperature.
- 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 TC	A-25.441.600.0
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 TC

Data sheet no. DenA254416000

Total chlorine (tc1 & tc2) measurement

Measuring range (Standard) Accuracy 0.00 - 1.00 ppm \pm 0.01 ppm 1.00 - 3.00 ppm ± 0.06 ppm 3.00 - 5.00 ppm \pm 0.2 ppm

Measuring range (Extended) Accuracy 0.0 - 10 ppm \pm 10 %

Measurement time tc1: 3-5 sec. Measurement time tc2: 2 min. Cycle time: 3 - 60 min.

tc1: measurement 3-5 seconds after injection of DPD & KJ

tc2: measurement 2 minutes after injection of DPD & KJ

Dichloramine: calculated by the difference of tc1 and tc2.

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

Transmitter Specifications and Functionality

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

Power supply

100 - 240 VAC (± 10 %), Voltage:

50/60 Hz (± 5 %) or 24 VDC (± 10 %)

Power consumption: max. 30 VA

Operation

Easy operation based on separate menfor "Messages", "Diagnostics", "Maintenance", "Operation" and "Installa-

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.

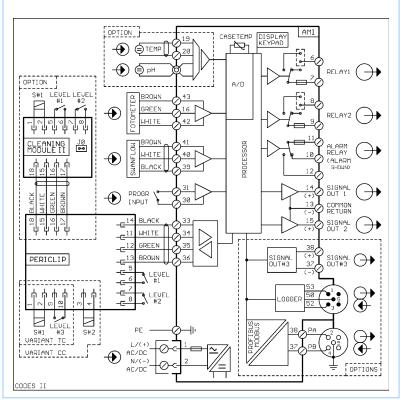
Safety features

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 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 instrument faults. and 1A / 250 VAC Maximum load:

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 with automatic Flow cell and connections hold function.

Rated load:

2 Signal outputs (3rd optional)

Two programmable signal outputs for Inlet tubing: measured values (freely scaleable, linear Outlet pressure: or bilinear) or as continuous control outputs (control parameters programmable). Current loop: 0/4 - 20 mA Panel

Maximum burden:

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

Monitor Data

Sample conditions

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

Made of acrylic glass with water inlet filter 1A / 250 VAC and needle valve.

Openings for pH and temperature sensors.

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

510 Ω Panel dimensions: 400 x 850 x 200 mm Panel material: 9.0 kg Weiaht: