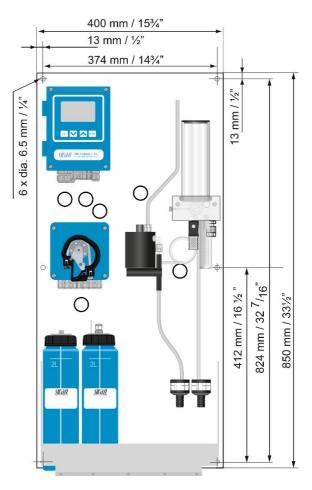
Data sheet no. DenA2544X6000

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 AC	A-25.441.600.0
	Monitor AMI Codes-II TC DC	A-25.442.600.0
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



SWAN Analytische Instrumente AG CH-8340 Hinwil/Switzerland Tel. +41 44 943 63 00 swan@swan.ch www.swan.ch

Monitor AMI Codes-II TC

Data sheet no. DenA2544X6000

Total chlorine (tc1 & tc2) measurement Measuring range (Standard) 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

Measuring range (Extended) Accuracy 0.0 - 10 ppm± 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 & KI

tc2: measurement 2 minutes after injection of DPD & KI

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: 0.1 °C Resolution:

Transmitter Specifications and

Electronics case: IP 66 / NEMA 4X med actions. Protection degree: Display: backlit LCD, 75 x 45 mm screw clamps 1 Alarm relay Electrical connectors: Ambient temperature: Limit range of operation: -30 to +85 °C values Storage and transport: 10 to 90 % relative, Maximum load: Humidity: non condensing

Power supply

Voltage: AC version: 100 - 240 VAC (\pm 10 %), 50/60 Hz (± 5 %)

DC version: Power consumption: max. 35 VA

Operation

Easy operation based on separate menus function. for "Messages", "Diagnostics", "Maintenance", "Operation" and "Installation". User menus in English, German, French 2 Signal outputs (3rd optional)

and Spanish Separate, menu specific password protec-

tion.

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 Maximum burden: logger with selectable time interval.

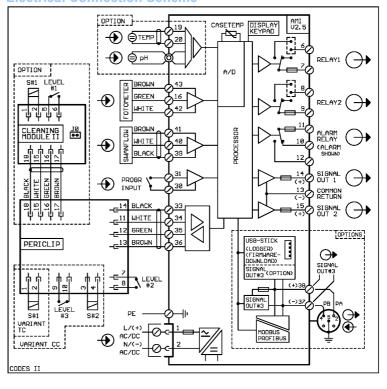
Safety features

No data loss after power failure, all data is saved in non-volatile memory. Over-voltage protection of in- and outputs. Galvanic Programmable P, PI, PID or PD control separation of measuring inputs and signal outputs.

Transmitter temperature monitoring

With programmable high/low alarm limits.

Electrical Connection Scheme



Real-time clock with calendar

Aluminum For action time stamp and preprogram- -

-10 to +50 °C One potential free contact for summary - USB interface -25 to +65 °C alarm indication for programmable alarm and instrument faults. 1A / 250 VAC

1 Input

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

10-36 VDC 2 Relay outputs

Two potential-free contacts programma- Flow cell and connections ble as limit switches for measuring values. controllers or timer with automatic hold

1A / 250 VAC Rated load:

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

Control functions

Relays or current outputs programmable for 1 or 2 pulse dosing pumps, solenoid valves or for one motor valve.

parameters

1 Communication interface (option)

- RS485 interface (galvanically separated) with Fieldbus protocol Modbus RTU or Profibus DP
- 3rd Signal output

Monitor Data

Sample conditions

Water consumption: min. 10 l/h Water inlet pressure 0 15 to 2 bar Sample temperature: 5 to 50 °C

Made of acrylic glass with water inlet filter and needle valve

Openings for pH and temperature sensors.

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

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