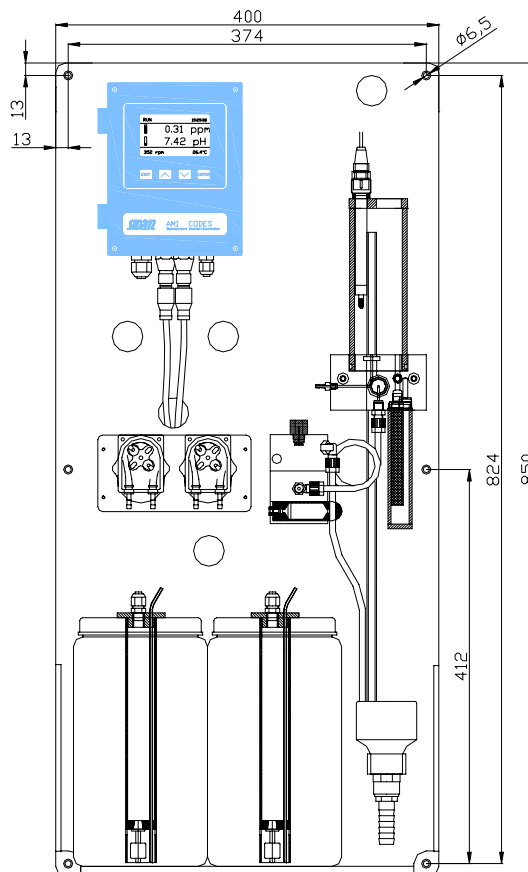


Complete monitoring system for the automatic, continuous measurement and dosing control of chlorine and other disinfectants in potable water, swimming pools, cooling water, hot water loops and effluent.

Monitor AMI Codes

- For the continuous in-line determination of disinfectants based on the colorimetric measurement principle according to EN ISO 7393-2 and DIN 38408 part 4.
- Also applicable for water containing additives like corrosion inhibitors, cyanuric acid and antiscalants.
- Free chlorine, chlorine dioxide, bromine and iodine are determined with the DPD photometric method, monochloramine and ozone require an additional reagent.
- 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 interrupt or filter backwashing.
- Two selectable measurement values (disinfectant, pH or temperature) are available as analog output signals.
- Alarm display and activation of alarm relay when user defined, critical limits (disinfectant, pH, temperature) are reached.
- Continuous, automatic monitoring of main instrument functions (sample flow, reagent supply).
- Big back-lit LC display showing all measured values and status information simultaneously.
- Intuitive user interface with text menus. Simple input of all parameters with keypad.
- Factory tested, installation ready and ready for operation.



Options:

- pH option containing pH sensor, temperature sensor, cables and electronics board.
- Third signal output selectable as:
 - Current signal output
 - Interface RS485 (Profibus DP or Modbus)
 - Logger download kit (with HyperTerminal)

Order scheme	Monitor AMI Codes	A-25.44	.	0	.	
Power supply:	85-265 VAC, 47-63 Hz	1	↑	↑	↑	↑
	24 VDC, direct current	2	↑	↑	↑	↑
pH measurement:	None	0				
	pH- and integrated temperature measurement	1				
Electrical output options:	None	0				
	Third current signal output 0/4 - 20 mA	1				
	Profibus DP interface	2				
	HyperTerminal interface (logger)	3				
	Modbus interface	4				
Reagents:	None	0				
	For determination of free chlorine, chlorine dioxide, bromine, iodine	1				
	For determination of monochloramine or ozone	2				

Disinfectant Measurement

Accuracy:	Measuring range:
Ozone	
± 0,005 ppm	0,000 - 1,000 ppm
HOCl, free chlorine, monochloramine	
± 0,01 ppm	0,00 - 1,00 ppm
± 0,06 ppm	1,00 - 3,00 ppm
± 0,2 ppm	3,00 - 5,00 ppm
Chlorine dioxide, iodine, bromine	
± 0,02 ppm	0,00 - 2,00 ppm
± 0,12 ppm	2,00 - 6,00 ppm

Response time:
90% of change of excessive Cl in 60 sec. after sample entered flow cell.

pH (option):
Measuring range: pH 2 to pH 12
Resolution: 0,01 pH

Temperature measurement (Option)
with Nt5k sensor
Measuring range : -30 to +130 °C
Resolution : 0.1 °C

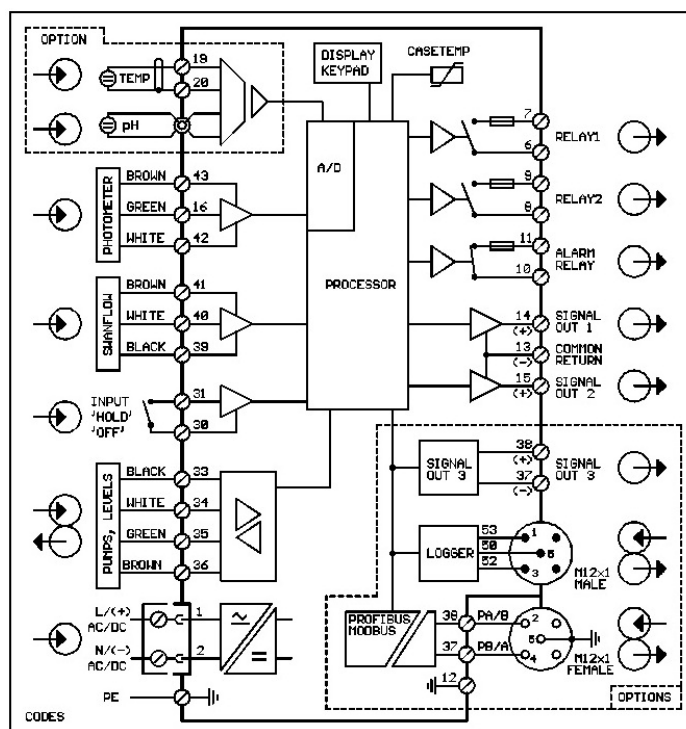
Transmitter Specifications and Functionality

Electronics case: Cast aluminum
Protection degree: IP 66 / NEMA 4X
Display: backlit LCD, 75 x 45 mm
Electrical connectors: screw clamps
Dimensions: 180 x 140 x 70 mm
Weight: 1.5 kg
Ambient temperature: -10 to +50 °C
Humidity: 10 - 90% rel., non condensing

Power supply
Voltage: 85 - 265 VAC, 47 - 63 Hz
or 24 VDC, ± 15 %
Power consumption: max. 20 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, sample flow, alarm status and time during operation.
Storage of event log, alarm log and calibration history.
Storage of the last 1'500 data records in logger with selectable time interval.

Electrical Connection Scheme



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.

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.

2 Relay outputs

Two potential-free contacts programmable as limit switches for measuring values, controllers or timer for system cleaning with automatic hold function.
Rated load: 1A / 250 VAC

2 Signal outputs (3rd as option)

Two programmable signal outputs for measured values (freely scaleable, linear or bilinear) or as continuous control output (control parameters programmable).
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)

RS232 interface for logger download to PC with Microsoft HyperTerminal or RS485 interface (galvanically separated) with Fieldbus protocol Modbus or Profibus DP.

Monitor data

Flow cell

Made of acrylic glass with water inlet filter and needle valve.
Openings for pH and temperature sensors.
Sample flow: min. approx. 10 l/h
Water pressure: 0,15 - 2 bar
Inlet tubing: 6 x 8 mm
Outlet pressure: atmospheric drain
Outlet tubing: 15 x 20 mm
Sample temperature: 5 to 50 °C
With simultaneous pH measurement

Panel

Dimensions : 850 x 280 x 150 mm
Material : PVC
Total weight : 9.0 kg