

Complete System with Chlorine Controller for Easy Analytical Control

Analytical - Continuous Control



System with 8236



Semicon Microsystem

- ✓ High accuracy ($\leq 1\%$)
- ✓ Chlorine sensor virtually maintenance-free
- ✓ Automatic pH-compensation
- ✓ Chlorine, bromide and iodine controller
- ✓ High dosage (statical or time-dependent)
- ✓ Easy LINK with valves

This unique system for disinfectant measuring and dosage is designed for swimming pool applications, drinking, process and waste water treatment. Thanks to the Easy LINK with Burkert valves, the system provides a low Total Cost of Ownership. The system consists of a chlorine controller (type 8236), a flow sensor/switch (type 8032), a pH-transmitter (type 8205), a filter and two quarter turn ball valves (type 2657). The following technical data specifies the whole system.

Process Specification

Process connection	G, NPT and Rc: DN20 and DN 25 (other diameters on request, see data sheet type S020 and S030)
Measuring range	0 up to 10 mg/l
Accuracy	$\leq 1\%$ of the terminal value
Wetted parts	
Chlorine sensor	PVC, silver, platinum
pH sensor	PVC, FPM or EPDM
Temperature sensor	SS 316 Ti
Paddle wheel	PVDF; ceramic, FPM or EPDM opt.
Display	
Chlorine	LCD, 2x16 characters
pH	LCD, 8 characters
Flow	LCD, 6 characters and analog bargraph
Limit values	Adjustable to 0-100% of the measuring range (low/high) Time lags adjustable: T_{on}/T_{off} 0 ..240 sec.

Electrical Specification

Power supply	230 VAC 50/60 Hz
Inputs	3 digital inputs
Outputs	
3 Relays	1 alarm relay 6A / 250 VAC 2 limit value relays 6A / 250 VAC
3 Signals	Analog outputs: 0/4 to 20 mA, 0 to 10 V

Electrical Connections

Cable glands

Environment Specifications

Enclosure	IP 55 (front plate)
Ambient temperature range	+5°C up to 40°C (41°F up to 104°F)
Storage temperature range	0°C up to +60°C (32°F up to 140°F)
Fluid pressure max.	1 bar (14.5 PSI)
Fluid temperature max.	40°C (104°F)

Standards

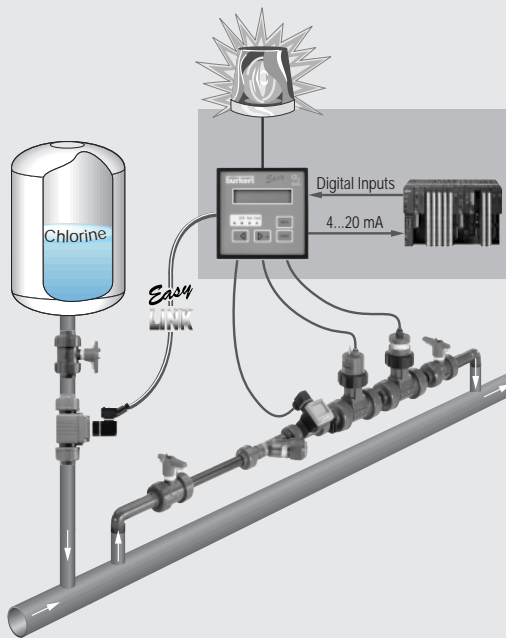
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Applications: Disinfecting (sterilization) of:

- Drinking water
- Swimming pool water
- Process water
- Waste water
- Cooling agent circulation system

Concentration control chemical processes



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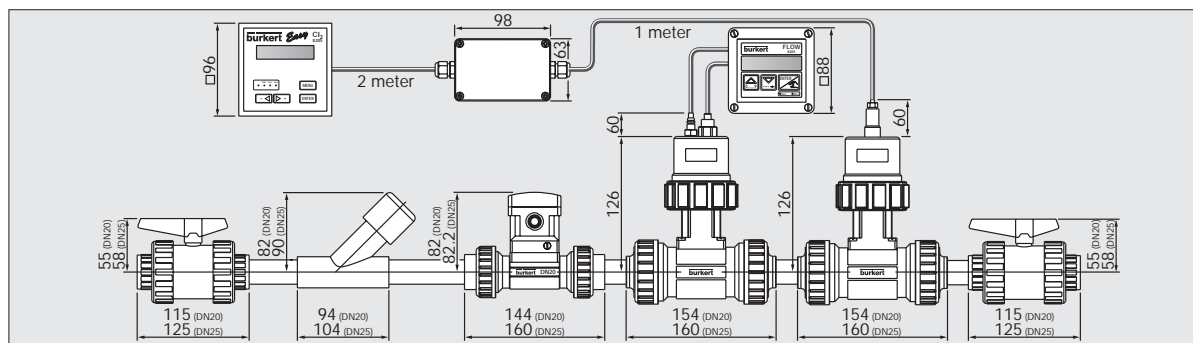
Specifications - Ordering Chart for Complete Measuring Sets

Description	Pipe size DN [mm]	Material	Item-No.
Complete sets with chlorine controller type 8236			
Including: 443 335 V, 443 336 W, 443 340 N, 429 224 Y, 427 937 H, 429 228 C, 427 114 G, 427 023 G, 427 024 H, 427 110 Q, 434 871 N, XXX XXX X , 2 x 430 838 V, 443 338 G, 2 x 432 393 M	20	PVC	443 347 H
Including: 443 335 V, 443 336 W, 443 340 N, 429 224 Y, 427 937 H, 429 228 C, 427 114 G, 427 023 G, 427 024 H, 427 110 Q, 2 x 430 838 V, 443 338 G, 2 x 432 393 M	20	PVC	443 348 J
Including: 443 335 V, 443 336 W, 443 340 N, 429 224 Y, 430 383 V, 443 338 G, 2 x 432 393 M	20	PVC	443 349 K
Including: 443 335 V, 443 336 W, 443 340 N, 429 224 Y, 427 937 H, 429 228 C, 427 114 G, 427 023 G, 427 024 H, 427 110 Q, 434 871 N, XXX XXX X , 2 x 430 839 W, 443 339 H, 2 x 432 394 N	25	PVC	443 350 Q
Including: 443 335 V, 443 336 W, 443 340 N, 429 224 Y, 427 937 H, 429 228 C, 427 114 G, 427 023 G, 427 024 H, 427 110 Q, 2 x 430 839 W, 443 339 H, 2 x 432 394 N	25	PVC	443 351 D
Including: 443 335 V, 443 336 W, 443 340 N, 429 224 Y, 430 839 W, 443 339 H, 2 x 432 394 N	25	PVC	443 352 E

Specifications - Ordering Chart for Accessories

Description	Pipe size DN [mm]	Voltage supply	Item-No.
Chlorine controller type 8236			
Chlorine controller with 230 VAC power supply	—	230 VAC	443 335 V
Chlorine controller with 115 VAC power supply	—	115 VAC	444 021 G
Chlorine electrode			
Chlorine electrode with PG 13.5 process connection	—	—	443 336 W
Pre-amplifier for chlorine electrode	—	—	443 340 N
Electrode holder in PVC	—	—	429 224 Y
Fitting in PVC	DN20	—	430 838 V
Fitting in PVC	DN25	—	430 839 W
Callbration device for chlorine sensors			
Callbration device for chlorine	—	—	443 359 M
pH transmitter type 8205			
pH transmitter panel mount, 4...20 mA output	—	10-30 VDC	427 937 H
Electrode holder in PVC	—	—	429 228 C
pH electrode easycontrol, 60°C, 2 bar	—	—	427 114 G
Temperature sensor Pt1000	—	—	427 023 G
Coaxial cable for pH electrode, 2m	—	—	427 024 H
4-wire cable for Temperature sensor, 2m	—	—	427 110 Q
Fitting in PVC	DN20	—	430 838 V
Fitting in PVC	DN25	—	430 839 W
Flow switches type SE32			
Flow switch with transistor output	—	12-30 VDC	434 871 N
Fitting for flow switch in PVC	—	—	—
Fitting for flow switch in PVC	—	—	—
M12 female cable connector with plastic threaded locking ring	—	—	917 116 D
5 pin plug M12 female connector moulded on cable (2m, shielded)	—	—	438 680 F
Ball valve type 2657			
Ball valve in PVC with locking lever	DN20	—	432 393 M
Ball valve in PVC with locking lever	DN25	—	432 394 N
Filter			
Filter 200 µm in PVC	DN20	—	443 338 G
Filter 200 µm in PVC	DN25	—	443 339 H

Dimensions [mm]



In case of special application requirements, please consult for advice.

We reserve the right to make technical changes without notice.
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