

Chlorine Control System for Easy Analytical Control



System with
8236/8205/8032



Amperometric Microsystem

- ✓ High accuracy ($\leq 1\%$)
- ✓ Chlorine sensor virtually maintenance-free
- ✓ Automatic pH-compensation
- ✓ One electrode for chlorine, bromine and iodine
- ✓ High dosage function (statical or time-dependent)
- ✓ Easy LINK with valves

This chlorine control 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 an excellent 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 ball valves (type 2657). The following technical data specifies the whole system.

Process Specification

Process connection

G, NPT and Rc: DN20
(other diameters on request, see data sheet type S020 and S030)
 10^{-3} up to 10 mg/l
 $\leq 1\%$ of full scale

Measuring range

Accuracy

Wetted parts

Chlorine sensor

pH sensor

Temperature sensor

Paddle wheel

Display

Chlorine

pH

Flow

PVC, silver, platinum
PVC, FPM or EPDM
SS 316 Ti
PVDF; ceramic, FPM or EPDM opt.

LCD, 2x16 characters
LCD, 8 characters
LCD, 6 characters and analog bargraph
Adjustable to 0-100% of the measuring range (low/high)
Time lags adjustable:
 T_{on}/T_{off} 0 ..240 sec.

Limit values

Electrical Specification

Power supply

Inputs

Outputs

3 Relays

3 Analog outputs

24 V/DC, 115/230 V/AC 50/60 Hz
3 Digital inputs

1 Alarm relay 6A/250 V/AC
2 Limit value relays 6A/250 V/AC
1 Output 0/4 to 20 mA, 0 to 10 V for process value
2 Outputs 4 to 20 mA for control

Cable glands

Electrical Connections

Environment Specifications

Enclosure

Ambient temperature range

Storage temperature range

Fluid pressure max.

Fluid temperature max.

IP 55 (front plate)
+5°C up to 40°C (41°F up to 104°F)
0°C up to +60°C (32°F up to 140°F)
1 bar (14.5 PSI)
40°C (104°F)

Standards

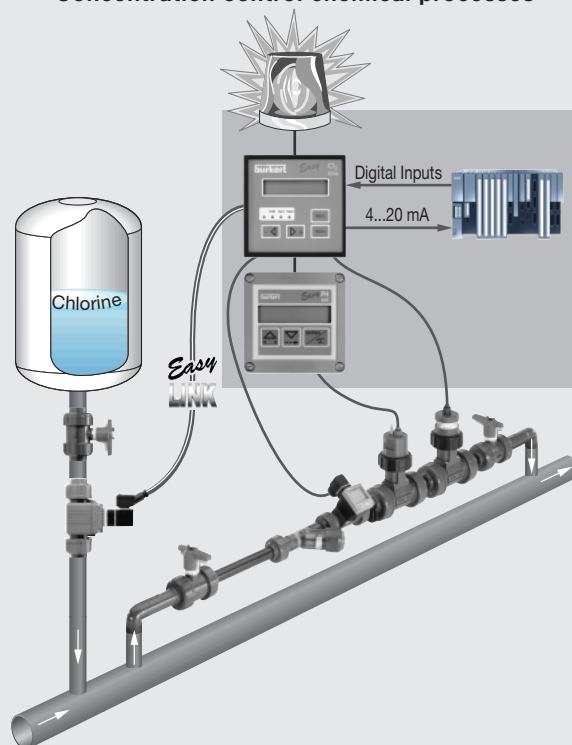
EMC

EN 50081-1
EN 50082-2
EN 61000-4-3
EN 55011
EN 55022

Applications: Disinfecting (sterilization) of:

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

Concentration control chemical processes



Analytical
Continuous Control

8236
8205
8032

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Specifications - Ordering Chart for Complete Measuring Sets

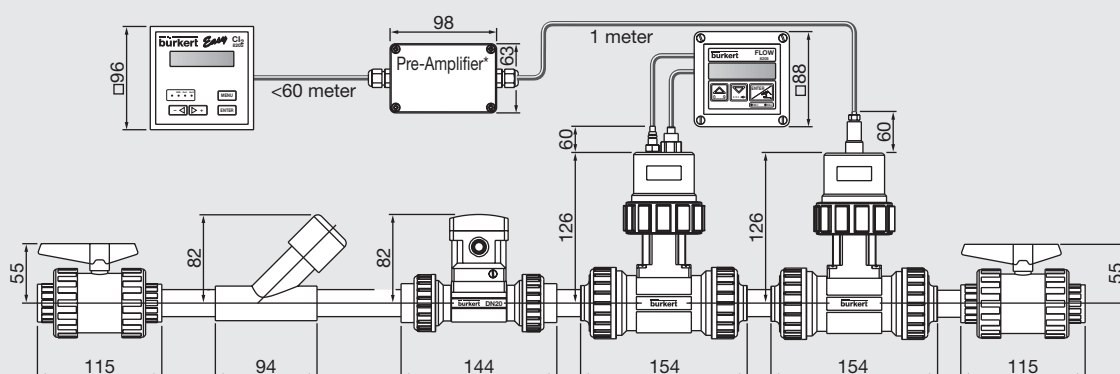
Description	Material	Pipe size DN [mm]	Voltage supply	Item-No.
Complete sets with chlorine controller type 8236				
Including: 448 531 X, 443 336 W, 429 224 Y, 427 937 H, 429 228 C, 427 114 G, 427 023 G, 427 024 H, 427 110 Q, 434 871 N, 444 025 K, 444 026 L, 2 x 430 838 V, 443 338 G, 2 x 432 393 M	PVC	DN20	24 VDC	443 347 H
Including: 448 531 X, 443 336 W, 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	PVC	DN20	24 VDC	443 348 J
Including: 448 531 X, 443 336 W, 429 224 Y, 430 383 V, 443 338 G, 2 x 432 393 M	PVC	DN20	24 VDC	443 349 K

Specifications - Ordering Chart for Accessories

Description	Pipe size DN [mm]	Voltage supply	Item-No.
Chlorine controller type 8236*			
Chlorine controller with integrated pre-amplifier	—	24 VDC	448 531 X
Chlorine controller with integrated pre-amplifier	—	230 VAC	448 529 D
Chlorine controller with integrated pre-amplifier	—	115 VAC	448 530 A
Chlorine controller without pre-amplifier	—	24 VDC	444 037 P
Chlorine controller without pre-amplifier	—	230 VAC	443 335 V
Chlorine controller without pre-amplifier	—	115 VAC	444 021 G
Chlorine electrode			
Chlorine electrode with PG 13.5 process connection with 1 m cable	—	—	443 336 W
Pre-amplifier for chlorine electrode (10m cable included)	—	—	443 340 N
Electrode holder in PVC	—	—	429 224 Y
Fitting in PVC	DN20	—	430 838 V
Calibration device for chlorine sensors			
Calibration 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
Flow switches type SE32			
Flow switch with transistor output	—	12-30 VDC	434 871 N
Fitting for flow switch in PVC	G 1/2"	—	444 025 K
Set with 2 union nuts G 1/2" / DN20 for flow fitting	DN20	—	444 026 L
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
Filter			
Filter 200 µm in PVC	DN20	—	443 338 G

*) Max. distance between electrode and controller: with integrated pre-amplifier <1m
with separated pre-amplifier <60m

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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