burkert ELUID CONTROL SYSTEMS



Chlorine sensor

- Free chlorine sensor "Trace" with three electrodes for measuring at low concentrations
- Free chlorine sensor with three electrodes and greatly reduced pH dependency
- Free chlorine sensor with two electrodes for standard applications at a constant pH value
- Total chlorine sensor with three electrodes and greatly reduced pH dependency



Product variants described in the data sheet may differ from the product presentation and description.

Can be combined with





Type 8200 ▶
Armatures for analytical sensors

Type description

The 8232 from Bürkert is an electrochemical sensor for measuring the free or total chlorine content of an inorganic source (chlorine gas, sodium hypochlorite solution, ...).

Four variants of Type 8232 are available:

- The "Trace" chlorine sensor (zero chlorine) equipped with three electrodes
 is suitable for measuring very low concentrations of free chlorine. The
 diaphragm of this sensor is protected against biofouling and can therefore
 work for up to four weeks in water without chlorine. It has a voltage output
 on a 5-pin M12 circular male connector.
- The free chlorine sensor with three electrodes offers greatly reduced pH dependency. The sensor has a current output on a 5-pin M12 circular male connector and is designed for applications in swimming pool, drinking or sea water. The liquid must contain a minimum chlorine concentration (≥ 0.1 ppm).
- The free chlorine sensor with two electrodes delivers a current output on on a 5-pin M12 circular male connector. This sensor is designed for use with swimming pool, drinking or process water. The fluid being measured must not contain any cleaning agents (e.g. surfactants) or abrasive particles. The pH value must be kept at a constant level. The fluid must contain a minimum chlorine concentration (≥ 0.1 ppm)
- The total chlorine sensor with three electrodes offers greatly reduced pH dependency. The sensor has a current output on a 5-pin M12 circular male connector and is suitable for applications in swimming pools, drinking or sea water, and brine.

It measures total chlorine = free chlorine + combined chlorine.

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General technical data

Note:

The chlorine sensor Type 8232 is available in four models.

Sensor model	Free chlorine sensor "Trace" (zero-chlorine)	Free chlorine sensor with 3 electrodes	Free chlorine sensor with 2 electrodes	Total chlorine sensor with 3 electrodes
			2)	
Product properties				
Material				
Detailed information on the materials can be found in chapter	"Free chlorine sensor "Trace" (zero-chlorine) with membrane cap M48.2" on page 8.	"Free chlorine sensor with 3 electrodes with membrane cap M48.4" on page 8.	"Free chlorine sensor with 2 electrodes with membrane cap M20.2" on page 9.	"Total chlorine sensor with 3 electrodes with membrane cap M48.4" on page 9.
Non wetted parts	PETP	PETP	PETP	PETP
Ring				
Fixed connector	PA	PA	PA	PA
Wetted parts	DVC II	DVC II	DVC II	DVC II
Sensor armature	PVC-U	PVC-U	PVC-U	PVC-U
Electrode holder	PEEK	PEEK	PEEK	PEEK
Electrode	Stainless steel 1.4571, silver/Silver Halide, gold	Stainless steel 1.4571, silver/Silver Halide, gold	Silver/Silver Halide, gold	Stainless steel 1.4571, silver/Silver Halide, gold
Membrane	Microporous hydrophilic	Microporous hydrophilic	Semi permeable hydro- phobic	Microporous hydrophilic
Seal	NBR	NBR	NBR	NBR
Other	PVC-U, stainless steel 1.4571, PEEK	PVC-U, stainless steel 1.4571	PVC-U, ABS	PVC-U, stainless steel 1.4571
Application	For monitoring absence of chlorine in reverse osmosis systems ^{1.)} (zero-chlorine)	For monitoring free chlorine at fluctuating pH in eg. drinking water	For monitoring free chlorine at constant pH in eg. swimming pool	For monitoring total chlorine at fluctuating pH in eg. swimming pool, drinking water, sea water, brine (15 % NaCl)
Compatibility		200 variant analytical meas be found in the data sheet	suring chamber of the armatures for analyt	
Dimensions	Detailed information can I	pe found in chapter "3. Din	nensions" on page 10.	
Weight	Approx. 125 g	•		
Measuring principle	Membrane covered, amperometric potentiostatic 3-electrode system with electronic inside (completely galvanically isolated, digital internal data processing)	Membrane covered - amperometric poten- tiostatic 3 electrodes system with electronic inside	Membrane covered - amperometric 2 electrodes system with electronic inside	Membrane covered - amperometric poten- tiostatic 3 electrodes system with electronic inside
Temperature compensation	Automatic (integrated tem Sudden temperature char	. ,		
Measured quantity	Free chlorine	Free chlorine, reduced pH dependency	Free chlorine, pH-de- pendent	Total chlorine (= free chlorine + bound chlorine), reduced pH dependency
Electrolyte	EMST1 gel	ECS2.1 gel	ECL1	ECP1.4 gel
Measuring range	0.0052 ppm	0.0520 ppm	0.0520 ppm	• 0.055 ppm
				• 0.0520 ppm
Zero point adjustment	Not necessary	Not necessary	Not necessary	Not necessary
1	· · · · · · · · · · · · · · · · · · ·		 J	 J











Sensor model	Free chlorine sensor	Free chlorine sensor	Free chlorine sensor	Total chlorine sensor
	"Trace" (zero-chlorine)	with 3 electrodes	with 2 electrodes	with 3 electrodes
Cross sensitivity/Inter- ference	 CIO₂, O₃ influence the signal strongly. High concentrations of bound chlorine can increase the measured value. Corrosion inhibitors, Stabilisers for water hardness can lead to measuring errors. Reducing agents can lead to a loss in slope. 	(factor 0.8) influence the signal.	 CIO₂ (factor 9), O₃ influence the signal. Electrolytically generated chlorine with a cell without membrane can disturb measurement. 	 CIO₂ (factor 1) O₃ (factor 1.3) Corrosion inhibitors, Stabilisers for water hardness can lead to measuring errors.
Maintenance ^{2.)}				
Control of the measuring signal Change of the membrane cap	Min. once a week recommended Once a year recommended	Min. once a week recommended Once a year recommended	Min. once a week recommended Once a year recommended	Min. once a week recommended Once a year recommended
Change of the electrolyte	Every 36 months recommended	Once a year recom- mended	Every 36 months recommended	Once a year recom- mended
Product accessories				
Membrane cap	M48.2 with intern holder (G-holder)	M48.4E (M48.4S for sea water on request)	M20.2	M48.4E (M48.4S for sea water or brine on request)
Chlorination agent	Inorganic chlorine compounds:	Inorganic chlorine compounds:	Inorganic chlorine compounds:	Inorganic chlorine compounds:
	 NaOCl (sodium hypochlorite) 	 NaOCI (sodium hypochlorite) 	 NaOCI (sodium hy- pochlorite) 	 NaOCI (sodium hy- pochlorite)
	 Ca(OCI)₂ 	 Ca(OCI)₂ 	 Ca(OCI)₂ 	 Ca(OCI)₂
	Chlorine gas	 Chlorine gas 	 Chlorine gas 	 Chlorine gas
	Electrolytically generated chlorine	Electrolytically generated chlorine	Chlorine electrolysis with membrane cell (unsuitable: chlorine electrolysis without membrane cell)	 Electrolytically generated chlorine
Suitable transmitter	Type 8619 multiCELL ▶	Transmitter/Controller3.) or a	any transmitter with approp	oriate input
Further accessory	Photometer MD100	Photometer MD100	 Photometer MD100 	Photometer MD100
	DPD-1 reagent	DPD-1 reagent	 DPD-1 reagent 	 DPD-4 reagent
	 External calibration device 			• DPD-1 + DPD-3 reagents
	be found in chapter "9.5. C	rdering chart accessorie	s" on page 16.	
Performance data	0.001 nnm	0.01 ppm	0.01 ppm	0.01 nnm
Sensor resolution Run-in time	0.001 ppm After first start-up and	0.01 ppm After first start-up and	0.01 ppm After first start-up and	0.01 ppm After first start-up and
	maintenance operations approx. 2 hours	maintenance operations approx. 2 hours	maintenance operations approx. 1 hour	maintenance operations approx. 2 hours
Response time (t90 %)	Approx. 120 s	Approx. 120 s	Approx. 30 s	Approx. 3 min. (brine approx. 5 min.)
Sensor reactivity loss	After max. 4 weeks use in chlorine-free water	After max. 24 hours use in chlorine-free water	After max. 24 hours use in chlorine-free water	After max. 24 hours use in chlorine-free water











Sensor model	Free chlorine sensor "Trace" (zero-chlorine)	Free chlorine sensor with 3 electrodes	Free chlorine sensor with 2 electrodes	Total chlorine sensor with 3 electrodes
Slope	-	between 65 % and 150 % Recommendation to dete sensor: concentration to be sensor Example: concentration to	an vary depending on product of the nominal slope. rminate the suitable measure measured x factor 1.5 = be measured 1.6 ppmx 1 nsor with a measuring rang	uring range or the suitable measuring range of the .5=2.4
Calibration	Generate a stable chlorine concentration in the measuring water, use DPD-1 method If no chlorine in the measuring water is allowed, use an external calibration equipment and the DPD-1 method. Detailed information can be found in chapter "9.5. Ordering chart accessories" on	By the analytical determination DPD-1 method (Reference value)	By the analytical deter- mination DPD-1 method (Reference value)	By analytical determination, DPD-4-or (DPD-1 + DPD-3) methods
Drift	page 16 Approx3 % per month, in reference conditions (25 °C, pH 7.2 in drinking water)	in reference conditions	Approx1% per month, in reference conditions (25 °C, pH 7.2 in drinking water)	in reference conditions
Electrical data			,	,
Operating voltage	 930 V DC, filtered and regulated (otherwise the probe may be damaged) The power supply is galvanically isolated 	1230 V DC, filtered and regulated, R _L : 50900 Ω (e.g. through the 8619 multiCELL Transmitter/Control-	1230 V DC, filtered and regulated, R _L : 50900 Ω (e.g. through the 8619 multiCELL Transmitter/Control-	1230 V DC, filtered and regulated, R _L : 50900 Ω (e.g. through the 8619 multiCELL Transmitter/Control-
	inside of the sensor.	Not galvanically isolated inside of the sensor	Not galvanically isolated inside of the sensor	ler)Not galvanically isolated inside of the sensor
Current consumption	Approx. 5620 mA	Approx. 4 mA (max. current by overloading: 30 mA)	Approx. 4 mA (max. current by overloading: 30 mA)	Approx. 4 mA (max. current by overloading: 30 mA)











Sensor model	Free chlorine sensor "Trace" (zero-chlorine)	Free chlorine sensor with 3 electrodes	Free chlorine sensor with 2 electrodes	Total chlorine sensor with 3 electrodes
Output	Voltage (4-wire): • Analog signal • 02000 mV (max. 2500 mV) • Galvanically insulated, that means potential-free • Output resistance: 1 kΩ	 Current (2-wire): Analog signal 420 mA (uncalibrated, at pH 7.2 nominal slope 0.8 mA/ppm) Not galvanically insulated^{4,)} Max. loop impedance (valid with Type 8619 multiCELL^{3,)}): 50 Ω at 12 V DC, 900 Ω at 30 V DC 	ed, at pH 7.2 nominal slope 0.8 mA/ppm) Not galvanically insulated ^{4.)}	 Current (2-wire): Analog signal 420 mA (uncalibrated, at pH 7.2 nominaslope 3.2 mA/ppm fovariant 0.055 ppm or 0.8 mA/ppm for variant 0.0520 ppm) Not galvanically insulated^{4.)} Max. loop impedance (valid with Type 8619 multiCELL-): 50 Ω at 12 V DC, 900 Ω at 30 V DC
Medium data Fluid	Water with similar characteristics to drinking water	 Drinking water, swimming pool water, sea water Surfactants are partially tolerated 	 Swimming pool water, drinking water, service water, process water Free of any surfactants With constant pH 	 Drinking water, swimming pool water, sea water, brine (15 % NaCl) Surfactants are partially tolerated
Fluid flow rate	1530 I/h mounted in analytical measurement chamber 8200, the measuring value depends on the flow rate (ensure constant flow rate)	1530 I/h mounted in analytical measurement chamber 8200, the measuring value depends on the flow rate (ensure constant flow rate) Detailed information can be found in chapter "Slope versus flow rate" on page 11.	value 1530 I/h mounted in analytical measurement chamber 8200, the measuring value depends on the flow rate (ensure constant flow rate) Detailed information can be found in chapter "Slope versus flow rate" on page 12.	1530 I/h mounted in analytical measurement chamber 8200, the measuring value depends on the flow rate (ensure constant flow rate) Detailed information can be found in chapter "Slope versus flow rate" on page 13.
Fluid pH range	pH 6.5pH 9 Detailed information can be found in chapter "Slope versus pH" on page 10.	pH 4pH 9 Detailed information can be found in chapter "Slope versus pH" on page 11.	pH 6pH 8 (attention to the dissociation equili- brum HOCI, pH has to be constant) Detailed information can be found in chapter "Slope versus pH" on page 12.	pH 4pH 12, reduced dependence on pH value Detailed information can be found in chapter "Slope versus pH" on page 13.
Fluid conductivity	- /10/3	10 μS/cm50 mS/cm (sea water)	_	10 µS/cm200 mS/cm (brine water)
Fluid temperature	0+40 °C (+32+104 °F)	0+45 °C (+32+113 °F)	0+45 °C (+32+113 °F)	0+45 °C (+32+113 °F)

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most restrictive range.









Sensor model	Free chlorine sensor	Free chlorine sensor	Free chlorine sensor	Total chlorine sensor
	"Trace" (zero-chlorine)	with 3 electrodes	with 2 electrodes	with 3 electrodes
		O	2	
Fluid pressure	Max. 0.5 bar (7.26 PSI),	 Max. 3.0 bar 	 Max. 1 bar (14.5 PSI), 	 Max. 3.0 bar
	operation with or with- out retaining ring, no	(43.53 PSI), operation	operation with	(43.53 PSI), operation
	pressure drops and/or	with retaining ring, no pressure drops and/	retaining ring, no pressure drops and/	with retaining ring, no pressure drops and/
	vibrations	or vibrations	or vibrations	or vibrations
		Max. 0.5 bar	Max. 0.5 bar	Max. 0.5 bar
		(7.26 PSI), operation	(7.26 PSI), operation	(7.26 PSI), operation
		without retaining ring,	without retaining ring,	without retaining ring
		no pressure drops	no pressure drops	no pressure drops
		and/or vibrations	and/or vibrations	and/or vibrations
If the pressure ranges giv allowed; the membrane c	en for the holder and the us ould be damaged	sed sensor are different, us	se the most restrictive range	e. Pressure drops are not
Process/Pipe connection	n & communication			
Process connection	With probe holder Type 82			△ ♥
Electrical connection	5-pin M12 circular male connector	5-pin M12 circular male connector	5-pin M12 circular male connector	5-pin M12 circular male connector
Approvals and certificat	es			
Directives				
CE directive			the EU Directives, can be f	ound on the EU Type
		nd/or the EU Declaration of	f conformity (if applicable).	
Environment and install	ation			
Ambient temperature				
Operation	0+55 °C (+32+131 °F		4.05.6	
Storage		it +5+40 °C (+41+104	4 °F), frost protected, dry a	nd without electrolyte
	Membrane cap:			
	 in original packing 	unlimited time at $+5+4$	10 °C (+41+104 °F)	
	 used membrane of 	aps cannot be stored		
 Electrolyte: +5+35 °C (+41+95 °F), 1 year or until the specified expiry date in original bottle protected from sunlight 				
Transport	+5+50 °C	+5+55 °C	+5+50 °C	+5+50 °C
	(+41+122 °F)	(+41+131 °F)	(+41+122 °F)	(+41+122 °F)
Relative air humidity	≤90 %, without condensa	tion		
Height above sea level	Max. 2000 m			
Degree of protection according to IEC/EN 60529	IP65 with cable plug mour	nted and tightened		

- 1.) Avoids fouling effects on the membrane in water without any chlorine for up to four weeks.
- 2.) Depends strongly on the water quality; values are recommendations for drinking water quality.
- 3.) Analogue input board necessary. Software variant of input board must be A.03.00 or higher; otherwise contact your local Bürkert support.
- 4.) A potential-free electrical connection is necessary as the chlorine sensor is not equipped with a galvanic isolation.









2. **Materials**

2.1. Chemical Resistance Chart - Bürkert resistApp

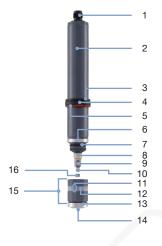


Bürkert resistApp - Chemical Resistance Chart

You want to ensure the reliability and durability of the materials in your individual application case? Verify your combination of media and materials on our website or in our resistApp.

2.2. Material specifications

Free chlorine sensor "Trace" (zero-chlorine) with membrane cap M48.2



No.	Element	Material
1	5-pin M12 circular male connector	PA
2	Sensor armature	PVC-U
3	Retaining ring	PETP
4	Slide ring	PETP
5	Sealing (O-ring)	NBR
6	Counter electrode	Stainless steel 1.4571
7	Sealing (O-ring)	NBR
8	Electrode holder	PEEK
9	Reference electrode	Silver/Silver Halide
10	Working electrode	Gold
11	Vent (under hose ring)	Stainless steel 1.4571
12	Hose ring	_
13	Membrane holder	Stainless steel 1.4571, PEEK
14	Membrane	Microporous hydrophilic
15	Membrane cap	PVC-U
16	Intern holder (G-holder)	_

Free chlorine sensor with 3 electrodes with membrane cap M48.4



No.	Element	Material
1	5-pin M12 circular male connector	PA
2	Sensor armature	PVC-U
3	Retaining ring	PETP
4	Slide ring	PETP
5	Sealing (O-ring)	NBR
6	Counter electrode	Stainless steel 1.4571
7	Sealing (O-ring)	NBR
8	Electrode holder	PEEK
9	Reference electrode	Silver/Silver Halide
10	Working electrode	Gold
11	Vent (under hose ring)	_
12	Hose ring	_
13	Membrane holder	 Stainless steel 1.4571 for membrane cap M48.4E PEEK for membrane cap M48.4S (sea water quality)
14	Membrane	Microporous hydrophilic
15	Membrane cap	PVC-U

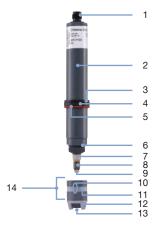






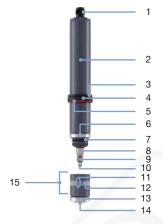


Free chlorine sensor with 2 electrodes with membrane cap M20.2



No.	Element	Material
1	5-pin M12 circular male con- nector	PA
2	Sensor armature	PVC-U
3	Retaining ring	PETP
4	Slide ring	PETP
5	Sealing (O-ring)	NBR
6	Sealing (O-ring)	NBR
7	Electrode holder	PEEK
8	Reference electrode	Silver/Silver Halide
9	Working electrode	Gold
10	Vent (under hose ring)	-
11	Hose ring	- (A)
12	Membrane protection	ABS
13	Membrane	Semi permeable hydrophobic
14	Membrane cap	PVC-U

Total chlorine sensor with 3 electrodes with membrane cap M48.4



No.	Element	Material
1	5-pin M12 circular male connector	PA
2	Sensor armature	PVC-U
3	Retaining ring	PETP
4	Slide ring	PETP
5	Sealing (O-ring)	NBR
6	Counter electrode	Stainless steel 1.4571
7	Sealing (O-ring)	NBR
8	Electrode holder	PEEK
9	Reference electrode	Silver/Silver Halide
10	Working electrode	Gold
11	Vent (under hose ring)	_
12	Hose ring	-
13	Membrane holder	 Stainless steel 1.4571 for standard membrane cap M48.4E PEEK for membrane cap M48.4S (sea water quality)
14	Membrane	Microporous hydrophilic
47.		
15	Membrane cap	PVC-U







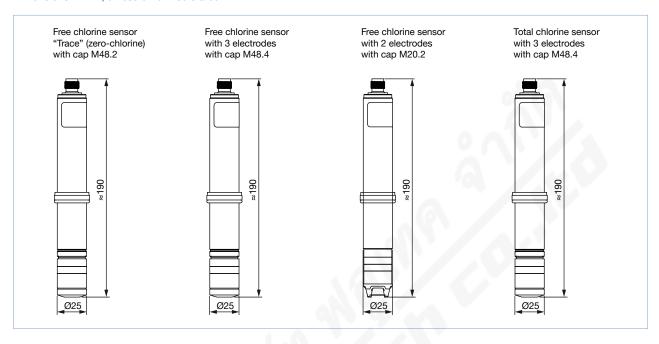




3. **Dimensions**

Note:

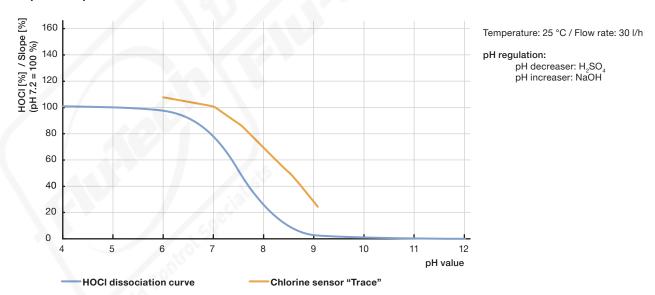
Dimensions in mm, unless otherwise stated



Performance specifications

4.1. Free chlorine sensor "Trace" (zero-chlorine) with membrane cap M48.2

Slope versus pH



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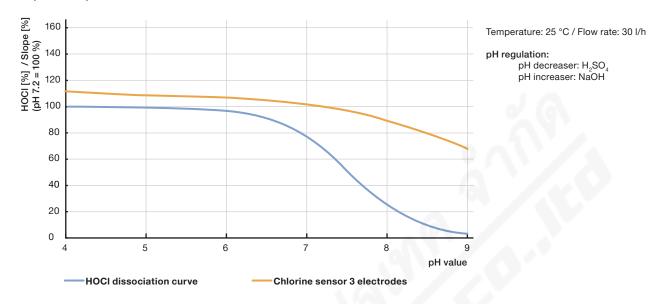




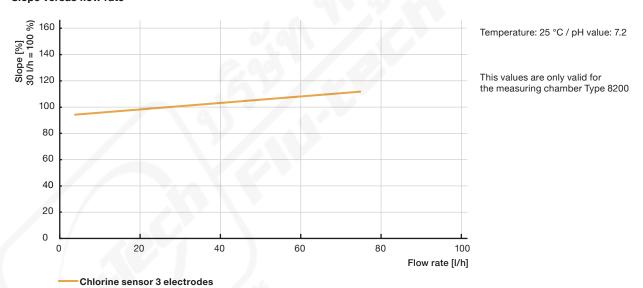


4.2. Free chlorine sensor with 3 electrodes with membrane cap M48.4

Slope versus pH



Slope versus flow rate



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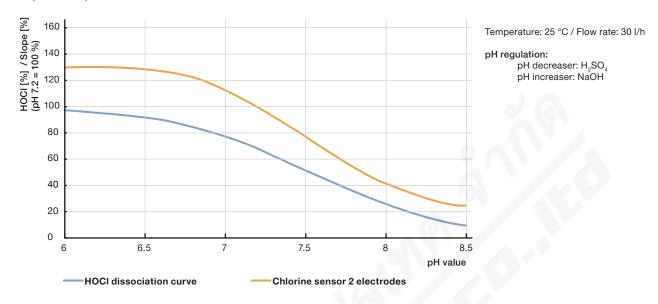




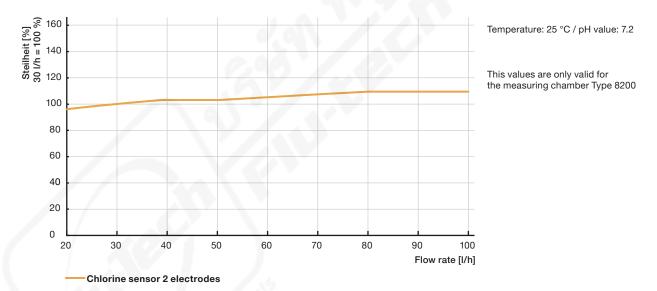


4.3. Free chlorine sensor with 2 electrodes with membrane cap M20.2

Slope versus pH



Slope versus flow rate





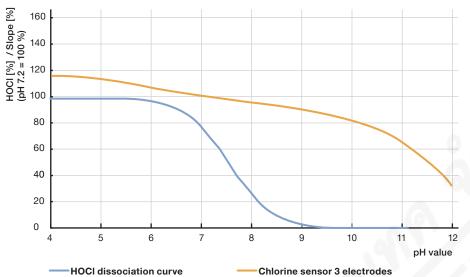






4.4. Total chlorine sensor with 3 electrodes with membrane cap M48.4

Slope versus pH

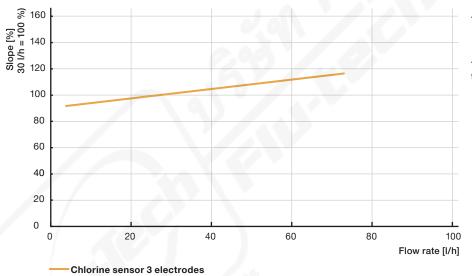


Temperature: 25 °C / Flow rate: 30 l/h

pH regulation:

pH decreaser: H2SO4 pH increaser: NaOH

Slope versus flow rate



Temperature: 25 °C / pH value: 7.2

This values are only valid for the measuring chamber Type 8200

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5. **Product installation**

5.1. Installation notes

Measuring chamber

Description

The requirements for maintaining and monitoring a constant flow rate of the analysed water, necessitate the use of an appropriate measuring chamber. Thus the sensor Type 8232 has to be installed in the analytical measuring chamber Type 8200. Otherwise the liability for a proper function of the sensor will be declined.

See data sheet Type 8200 ▶ for more information.

This analytical measurement chamber has to be installed so that the inserted chlorine sensor is in an upright position, and so that the incoming flow rate comes from the bottom up to the membrane. Gas bubbles at the membrane leads to incorrect measuring signals.

For continuous flow monitoring, an inductive flow switch is available optionally, to be mounted in the analytical measurement chamber Type 8200.

Do not install the sensor in the main pipe. Measure only in bypass with use of the analytical measuring chamber Type 8200.

6. **Product operation**

6.1. Measuring principle

Depending on the variant, the 8232 Sensor measures either the free chlorine or the total chlorine content. Total chlorine is the sum of free chlorine (disinfectant chlorine) and bound chlorine (Concentration of chlorine combined with organic and inorganic nitrogen compounds present in the water).

The chlorine sensor is a two or three-electrode measuring system (depends on variant) covered with a membrane. The membrane cap filled with a special electrolyte, protects the working and reference electrodes from direct contact with the measuring water. With this measuring method, ionic substances in the water are held back by the membrane, whereas the substance to be determined (disinfectant or chlorine) can pass through the membrane without restriction. The diffusion of the substance through the membrane ensures that the concentrations on both sides of the membrane are equal and causes an electrical signal on the working electrode. The 2-electrode measuring system consists of a working electrode and a reference electrode, between which a certain voltage (polarization voltage) is applied. The 3-electrode measuring system consists of a working electrode, a reference electrode and a counter electrode. The measuring signal at the working electrode is proportional to the concentration of the disinfectant or to the chlorine concentration and is amplified by the electronics of the sensor. The measuring signal is independent from the temperature of the measuring water due to an integrated temperature compensation.

The calibration must be done on a transmitter/controller with a reference value. The transmitter Type 8619 multiCELL is suited and recommended, but any other suited transmitter can be also used.

See data sheet Type 8619 ▶ for more information.

Product design and assembly 7.

7.1. Product features

The following table gives an overview of the features for sensor selection.

Feature details	Free chlorine sensor	Total chlorine sensor		
	"Trace" (zero-chlorine)	with 3 electrodes	with 2 electrodes	with 3 electrodes
Works in water without chlorine for up to 4 weeks	Yes	No	No	No
Galvanically isolated	Yes	No	No	No
Greatly reduced pH dependency	Yes ^{1.)}	Yes	No	Yes
Surfactants are partially tolerated	Yes	Yes	No	Yes
Temperature compensation	Yes	Yes	Yes	Yes
Zero-Point stability	Yes	Yes	Yes	Yes
Membrane covered	Yes	Yes	Yes	Yes
Two-wire device	No	Yes	Yes	Yes

^{1.)} Chlorine sensor "Trace" has a higher pH dependency compared to the chlorine sensor with 3 electrodes.







8. Networking and combination with other Bürkert products

Example:



Ordering information

Bürkert eShop - Easy ordering and quick delivery



Bürkert eShop - Easy ordering and fast delivery

You want to find your desired Bürkert product or spare part quickly and order directly? Our online shop is available for you 24/7. Sign up and enjoy all the benefits.

Order online now

9.2. Recommendation regarding product selection

A complete chlorine measuring system consists of a chlorine sensor Type 8232, a circular female connector with cable, an analytical measurement chamber Type 8200, an electrolyte (the delivery includes one electrolyte bottle) and the multiCELL controller Type 8619 (analogue input board necessary. Software version of input board must be the version A.03.00 or higher; otherwise contact your local Bürkert support).

Three or four different components must be ordered in order to select a complete device. The following information is required:

- Article no. of the analytical measurement chamber Type 8200 (see chapter "9.5. Ordering chart accessories" on page 16 or data sheet Type 8200 ▶)
- Article no. of the desired chlorine sensor Type 8232 (see chapter "9.4. Ordering chart" on page 16)
- Article no. of the circular female connector (see chapter "9.5. Ordering chart accessories" on page 16)
- Article no. of the multiCELL transmitter/controller Type 8619 (see data sheet Type 8619)

9.3. Bürkert product filter



Bürkert product filter - Get quickly to the right product

You want to select products comfortably based on your technical requirements? Use the Bürkert product filter and find suitable articles for your application quickly and

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9.4. Ordering chart

Sensor variant		Description	Measuring range	Output	Electrical	Article no.
			[ppm]		connection	
Oli	"Trace" (zero- chlorine) with 3 electrodes	Measures at very low chlorine concentrations	0.0052	02000 mV (max. 2500 mV)	5-pin M12) circular male connector	572928 ≒
OIL	With 3 electrodes	Measures the concentration of free chlorine with greatly reduced pH dependency	0.0520	420 mA		568523 ≒
11	With 2 electrodes	Measures the concentration of free chlorine	0.0520			568524 ≒
Oll	With 3 electrodes	Measures the concentration of total chlorine with greatly reduced pH dependency	0.055	0,7		569698 ≒
OIL	With 3 electrodes	Measures the concentration of total chlorine with greatly reduced pH dependency	0.0520			573799 ≒

	Further versions on request		
>	Additional Measurement parameter (chlorine dioxide, or others)	Electrical connection Screw terminal	

9.5. Ordering chart accessories

Description	Article no.		
Analytical measurement chamber Type 8200	569221 ≒		
Flow switch for analytical measurement chamber, PNP, 2 m cable (optional)	775261 🖼		
Photometer MD100, measuring range 0.016 ppm	566393 ≒		
DPD-1 reagent (100 Tablets)	566394 ≒		
For free chlorine sensor "Trace" (zero-chlorine) with 3 electrodes (Article no. 572928);			
Electrolyte EMST1 gel, 100 ml	566060 ∖≅		
Membrane cap M48.2 with intern holder (G-holder)	566057 ≒		
5-pin M12 straight circular female connector moulded on cable (2 m, shielded)	438680 ≒		
External calibration device (only needed if measuring water containing no chlorine)	565163 ≒		
For free chlorine sensor with 3 electrodes (Article no. 568523 🖃)			
Electrolyte ECS2.1 gel, 100 ml	566059 ≒		
Membrane cap M48.4E for standard water quality	568557 ≒		
Membrane cap M48.4S for sea water quality	568558 ≒		
5-pin M12 straight circular female connector moulded on cable (2 m, shielded)	438680 ≒		
For free chlorine sensor with 2 electrodes (Article no. 568524 ⋈)			
Electrolyte ECL1, 100 ml	566058 ≒		
Membrane cap M20.2	566056 ≒		
5-pin M12 straight circular female connector moulded on cable (2 m, shielded)	438680 ≒		
For total chlorine sensor with 3 electrodes (Article no. 569698 ≒ and 573799 ≒)			
Electrolyte ECP1.4 gel, 100 ml	569510 ≒		
Membrane cap M48.4E for standard water quality	568557 ≒		
Membrane cap M48.4S for sea water quality	568558 ≒		
5-pin M12 straight circular female connector moulded on cable (2 m, shielded)	438680 ≒		







