









pH or redox transmitter, ELEMENT design

- Integrated compact measurement device for direct connection to control level (PLC)
- Thanks to a removable display/configuration module, parameterisation, calibration and transfer of parameterisation data
- Fast and easy adaptation of the device between pH and ORP measurement
- Usage of 120 mm standard PG 13.5 pH/redox-probes with S8 connector (Type 8203 recommended)
- Easy one- or two-point calibration on the device directly, simulation of process values and diagnostic functions

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

Can be combined with



Type 8203 pH- and ORP-probes



Type 8611 • CONTROL - Universal controller



Type 8619 • multiCELL - Multi-channel and multi-function transmitter/controller

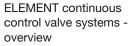


Type 8693

Digital electropneumatic process controller for the integrated mounting on process control valves



Type 8802 •





Type S022 Insertion adaptor/fitting for ELEMENT analytical measurement devices

Type description

The Type 8202 is a compact measuring device designed for measuring the pH value or redox potential (ORP):

- pH value: in clean or contaminated liquids or liquids containing solids, sulphides or proteins.
- redox potential value: in clean or contaminated liquids or liquids containing solids, sulphides or proteins which may present low conductivity.

Thus, due to the design of the measuring device, Bürkert simplifies installation and maintenance work.

The device Type 8202 is available in two versions.

- The first one called ELEMENT standard is proposed either with three
 adjustable outputs (two digital outputs and one analogue output) or with
 four adjustable outputs (two digital outputs and two analogue outputs) and
 can be equipped with a display. The display is only required for start-up,
 configuration (e.g. selection of pH/ORP measurement, measuring range,
 units, calibration, limit values...) or as a process value display.
- The second called ELEMENT neutrino is a 2-wire device without display and with a 4...20 mA current output.

The Type 8202 converts the measuring signal, displays for the ELEMENT standard version various values in different measuring units (if display is mounted) and computes the output signals, which are provided for the ELEMENT standard version via one or two M12 plug-in connections or for the ELEMENT neutrino version via one M12 plug-in connection or on a terminal strip via a cable gland.



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1. General Technical Data

1.1. About the device

The complete measurement device consists of a replaceable standard 120 mm pH or ORP probe, Type 8203, available in several models and the pH or ORP transmitter Type 8202 in the ELEMENT standard or ELEMENT neutrino version, both available either with PVC or PVDF union nut connection.

See data sheet Type 8203 ▶ for more information.

1.2. All models

Note:

- The following data applies to all versions.
- If the device is mounted in a humid environment or outside, then the maximum voltage allowed is 35 V DC instead of 36 V DC.

Product properties			
Material			
Please make sure the device materials are compatible with the fluid you are using.			
Detailed information can be found in chapter "3.1. Chemical Resistance Chart – Bürkert resistApp" on page 8.			
Detailed information on the materials can be found in chapter "3.2. Material specifications" on page 9			
Dimensions	Detailed information can be found in chapter "4. Dimensions" on page 10.		
Compatibility	Any pipe which is fitted with Bürkert S022 adaptor. See data sheet Type S022 ▶ for more information.		
Pipe diameter	DN 25DN 110 (DN 15DN 20 under specific conditions)		
Probe	• 120 mm Bürkert pH or ORP probe with S7/S8 connector, Type 8203 (recommended), see data sheet Type 8203 ▶ for more information.		
	 Any combined 120 mm pH or ORP probe, without temperature sensor, with PG13.5 head, S7/ S8 connector 		
Temperature sensor	Pt1000 integrated within the holder		
Temperature compensation	Automatic, reference temperature 25 °C (77 °F)		
Performance data			
420 mA output uncertainty	±1% of range		
Electrical data			
Power source (not supplied)	Limited power source according to UL/EN 60950-1 standards or limited energy circuit according to UL/EN 61010-1 §9.4		
DC reverse polarity protection	Yes		
Overvoltage protection	Yes		
Voltage supply cable	Shielded cable		
Medium data			
Fluid temperature ^{1.)}	Device with		
	 PVC union nut: 0+50 °C (+32+122 °F) restricted by the used probe 		
	 PVDF union nut (on request): -20+130 °C (-4+266 °F) restricted by the used probe or adaptor 		
	Restriction with adaptor S022 in:		
	– PVC: 0+50 °C (+32+122 °F)		
	- PP: 0+80 °C (+32+176 °F)		
	- Metal: -20+130 °C (-4+266 °F)		
Fluid pressure ^{1,) 2,)}	Max. PN 16 (232 PSI) Detailed information can be found in chapter "5.1. Pressure temperature diagram" on page 12 (depends on selected probe).		
Process/Port connection & co			
Process connection	G 1½" internal thread for use with Type S022 adaptor See data sheet Type S022 ▶ for more information.		

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Directives		
CE directives The applied standards, which verify conformity with the EU Directives, can be found Type Examination Certificate and/or the EU Declaration of conformity (if applicable)		
	Complying with Article 4, Paragraph 1 of 2014/68/EU directive Detailed information on the pressure equipment directive can be found in chapter "2.3. Pressure Equipment Directive" on page 8.	
Certification	UL-Recognized for US and Canada	
	Certificate of sanitary conformity (ACS)	
Environment and installation		
Ambient temperature Operation and storage: -10+60 °C (+14+140 °F)		
Relative air humidity ≤85 %, without condensation		
Height above sea level	Max. 2000 m	
Operating condition	Continuous	
Equipment mobility Fixed		
Application range Indoor and outdoor (protect the device against electromagnetic interference, ultraviole against the effects of climatic conditions)		
Installation category Category I according to UL/EN 61010-1		
Pollution degree Degree 2 according to UL/EN 61010-1		

separate data sheet).

1.3. ELEMENT standard version



Product properties

Detailed information on the materials can be found in chapter "3.2. Material specifications" on page 9.

Non wetted parts

Stainless steel 1.4404 (316L), PPS Housing Cover Polycarbonate (PC), transparent (opaque on request) Display/configuration module PC Navigation key PBT Seals EPDM, silicone Screws Stainless steel Fixed connector holder Stainless steel 1.4404 (316L) Fixed connector Nickel-plated brass Nut PVC or PVDF

Probe holder	PVDF, stainless steel 1.4571 (316Ti)
Probe	If used with
	 120 mm Bürkert pH or ORP probe with S7/S8 connector, Type 8203, see data sheet Type 8203 For more information or
	another probe see specific technical data.
Measuring range	 pH measurement: -216 pH or -580+580 mV
	ORP measurement: -2000+2000 mV
	 Temperature measurement: -20+130 °C (-4266 °F)

Display/configuration module Grey dot matrix 128 x 64 with backlighting

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^{2.)} Not evaluated by UL



Performance data	
Measurement deviation	pH measurement: ±0.02 pH or 0.5 mV
	ORP measurement: ±3 mV
	Temperature measurement: ±1 °C (1.8 °F)
Measuring range resolution	pH measurement: 0.001 pH or 0.1 mV
	ORP measurement: 1 mV
	Temperature measurement: 0.1 °C (0.18 °F)
Minimal scale	 pH measurement: 0.5 pH or 30 mV (i.e 6.77.2 pH or -20+10 mV corresponding to 420 mA)
	ORP measurement: 50 mV (i.e 1550600 mV corresponding to 420 mA)
Electrical data	
Operating voltage	 3 outputs transmitter (2-wire) version: 1436 V DC, filtered and regulated
	 4 outputs transmitter (3-wire) version: 1236 V DC, filtered and regulated Connection to main supply: permanent (through external SELV (Safety Extra Low Voltage) and LPS (Limited Power Source) power supply
Current consumption	With sensor
	 ≤1 A (with transistors load)
	• 3 outputs transmitter (2-wire) version: ≤25 mA (at 14 V DC without transistors load, with current loop)
	 4 outputs transmitter (3-wire) version: ≤5 mA (at 12 V DC without transistors load, without current loop)
Outputs	
Transistor	 Adjustable as sourcing or sinking (respectively both as PNP or NPN), open collector
	• Max. 700 mA
	 0.5 A max. per transistor if the 2 transistor outputs are wired
	NPN-output: 0.236 V DC
	PNP-output: Power supply
	 Protected against overvoltage, polarity reversals and short circuit
Current	420 mA adjustable as sourcing or sinking (in the same mode as transistor)
	 Response time (10 %90 %): 150 ms (standard)
	 1 current output (3 outputs transmitter (2-wire) version) Max. loop impedance: 1100 Ω at 36 V DC; 610 Ω at 24 V DC; 180 Ω at 14 V DC
	• 2 current outputs (4 outputs transmitter (3-wire) version) Max. loop impedance: 1100 Ω at 36 V DC; 610 Ω at 24 V DC; 100 Ω at 12 V DC
Voltage supply cable	For the female M12 connector and/or the male M12 connector (not supplied, to order separately, see chapter "10.5. Ordering chart accessories" on page 17) use a cable • Ø 36.5 mm
	Cross section of wires: max. 0.75 mm ²
Process/Port connection &	
Electrical connection	3 outputs transmitter (2-wire) version: 1x5 pin M12 male fixed connector
	 4 outputs transmitter (3-wire) version: 1x5 pin M12 male and 1x5 pin M12 female fixed connectors
Approvals and certificates	
Standards	
Protection class ^{1.)}	With device wired and M12 cable plug(s) mounted and tightened, cover fully screwed down and probe inserted and tightened: IP65, IP67 (according to IEC/EN 60529),
Certificates	FDA declaration of conformity

1.) Not evaluated by UL

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1.4. ELEMENT neutrino version



Product properties

Material

Detailed information on the materials can be found in chapter "3.2. Material specifications" on page 9.

Non wetted parts

Housing Stainless steel 1.4404 (316L), PPS

Cover Black PPS
Seals EPDM
Screws Stainless steel

Fixed connector/cable gland PA66

Nut PVC (PVDF on request)

Wetted parts

Wetted parts	
Probe holder	PVDF, Stainless steel 1.4571 (316Ti)
Probe	 If used with 120 mm Bürkert pH or ORP probe with S7/S8 connector, Type 8203, see data sheet Type 8203 ▶ for more information or
	If used with another probe see specific technical data.
Measuring range	pH measurement: 014 pH
	ORP measurement: -2000+2000 mV
	Temperature measurement: -20+130 °C (-4266 °F)

Product accessories

Display/configuration module	No	
Performance data		

Measurement deviation
 pH measurement: ±0.05 pH
 ORP measurement: ≤0.2 % of the full scale
 Temperature measurement: ±1 °C (1.8 °F)
 Measuring range resolution
 pH measurement: 0.001 pH or 0.1 mV

ORP measurement: 1 mV
 Temperature measurement: 0.1 °C (0.18 °F)

 Electrical data

 Operating voltage
 12...36 V DC, filtered and regulated Connection to main supply: permanent (through external SELV (Safety Extra Low Voltage) and LPS (Limited Power Source) power supply

 Current consumption
 ≤25 mA (with sensor)

Outputs Current

Voltage supply cable

Current 4...20 mA
• Response time (10 %...90 %): 5 s (standard)

• Max. loop impedance: 1100 Ω at 36 V DC; 610 Ω at 24 V DC; 100 Ω at 12 V DC

• For the female M12 connector and/or the male M12 connector (not supplied, to order separate-

ly, see chapter "10.5. Ordering chart accessories" on page 17) use a cable

- Ø 3...6.5 mm

- Cross section of wires: max. 0.75 mm²

 For terminal strip via a cable gland (measuring data acc. to CEI 664-1/VDE 0110 (4.97 use a cable):

Solid H05(07) V-U: 0.25...1.5 mm²
 Flexible H05(07) V-K: 0.25...1.5 mm²

With wire end ferrule: 0.25...1.5 mm²

- With plastic collar ferrule: 0.25...0.75 mm²

- Diameter: 4...8 mm

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Process/Port connection & communication

Electrical connection

- 1 x 5 pin free positionable M12 male fixed connector or
- Terminal strip via 1x cable gland M16×1.5

Approvals and certificates

Standards

Protection class^{1.)}

With device wired and M12 cable plug mounted and tightened or cable gland tightened or obturated, cover properly mounted and secured and probe inserted and tightened:

- IP65, IP67 (according to IEC/EN 60529)
- NEMA 4X and NEMA 6P (according to NEMA250) (with device installed on the fitting)
- UL50E

2. Approvals

2.1. Certification

Note:

The certification listed below must be stated when making enquiries. This is the only way to ensure that the product complies with all required specifications. Not all available devices can be supplied with the certification below.

Certificate	Description
c FL °us	UL-Recognized for USA and Canada Products are UL-certified products and comply also with the following standards:
	• UL 61010-1
	• CAN/CSA-C22.2 No.61010-1
C UL US	UL-Listed for USA and CanadaProducts are UL-listed products and comply also with the following standards:UL 61010-1
LISTED	• CAN/CSA-C22.2 No.61010-1

2.2. Certificates

Note:

The certificate listed below must be stated when making enquiries. This is the only way to ensure that the product complies with all required specifications. Not all available devices can be supplied with the certificate below.

Certificate	Description
FDA The devices comply in their composition with the Code of Federal Regulations published by the FD Drug Administration, USA). ACS Certificate of sanitary conformity+ Products comply with the requirements of the circular DGS/SD7A 2002 n° 571 of 25th november 20	

^{1.)} Not evaluated by UL



2.3. Pressure Equipment Directive

The device conforms to Article 4, Paragraph 1 of the Pressure Equipment Directive 2014/68/EU under the following conditions:

Device used on a pipe

Note:

- The data in the table is independent of the chemical compatibility of the material and the fluid.
- PS = maximum admissible pressure, DN = nominal diameter of the pipe

Type of fluid	Conditions
Fluid group 1, Article 4, Paragraph 1.c.i	DN ≤25
Fluid group 2, Article 4, Paragraph 1.c.i	DN ≤32 or PS*DN ≤1000
Fluid group 1, Article 4, Paragraph 1.c.ii	DN ≤25 or PS*DN ≤2000
Fluid group 2, Article 4, Paragraph 1.c.ii	DN ≤200 or PS ≤10 or PS*DN ≤5000

Device used on a vessel

Note:

- The data in the table is independent of the chemical compatibility of the material and the fluid.
- PS = maximum admissible pressure, V = vessel volume

Type of fluid	Conditions	
Fluid group 1, Article 4, Paragraph 1.a.i	V>1 L and PS*V≤25 bar.L or PS≤200 bar	
Fluid group 2, Article 4, Paragraph 1.a.i	V>1 L and PS*V≤50 bar.L or PS≤1000 bar	
Fluid group 1, Article 4, Paragraph 1.a.ii	V>1 L and PS*V≤200 bar.L or PS≤500 bar	
Fluid group 2, Article 4, Paragraph 1.a.ii	PS>10 bar and PS*V≤10000 bar.L or PS≤1000 bar	

3. Materials

3.1. Chemical Resistance Chart - Bürkert resistApp



Bürkert resistApp - Chemical Resistance Chart

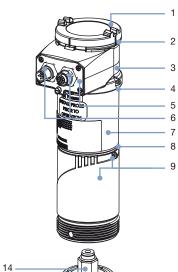
You want to ensure the reliability and durability of the materials in your individual application case? Verify your combination of media and materials on our website or in our resistApp.

Start Chemical Resistance Check

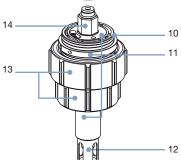


3.2. Material specifications

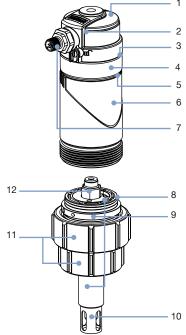
ELEMENT standard version



No.	Element	Material
1	Cover	PC
2	Seal	Silicone
3	Housing (top)	PPS
4	Seal	EPDM
5	Fixed connector holder	Stainless steel 1.4404 (316L)
6	M12 fixed connector	Nickel-plated brass
7	Housing (body)	Stainless steel 1.4404 (316 L)
8	Seal	EPDM
9	Housing (base)	PPS
10	Seal	EPDM
11	Probe holder	PVDF
12	Probe holder	Stainless steel 1.4571 (316 Ti)
13	Union nuts	PVC or PVDF
14	Probe	According to the used probe See specific data sheet or data sheet Type 8203 ▶



ELEMENT neutrino version



No.	Element	Material
1	Cover	Black PPS
2	Seal	EPDM
3	Seal	EPDM
4	Housing (top)	Stainless steel 1.4404 (316 L)
5	Seal	EPDM
6	Housing (body)	PPS
7	M12 fixed connector/cable gland	PA66
8	Seal	EPDM
9	Probe holder	PVDF
10	Probe holder	Stainless steel 1.4571 (316 Ti)
11	Union nuts	PVC (or PVDF on request)
12	Probe	According to the used probe See specific data sheet or data sheet Type 8203 ▶

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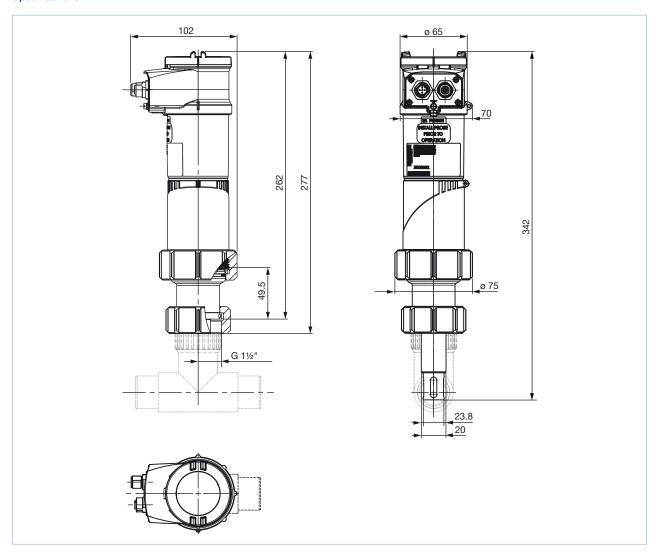
<u>burkert</u>

4. Dimensions

4.1. ELEMENT standard version

Note:

Specifications in mm

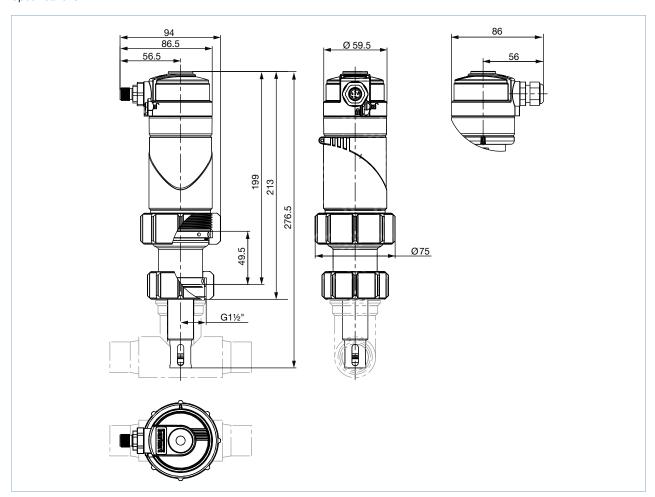




4.2. ELEMENT neutrino version

Note

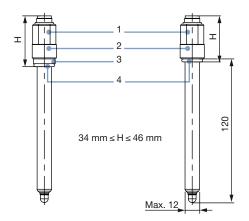
Specifications in mm



4.3. Probe

Note:

- Specifications in mm
- It is recommended to use Bürkert pH or ORP probes Type 8203. The following dimensions are given for guidance. Probes are not included in the delivery. See **data sheet Type 8203** for more information.



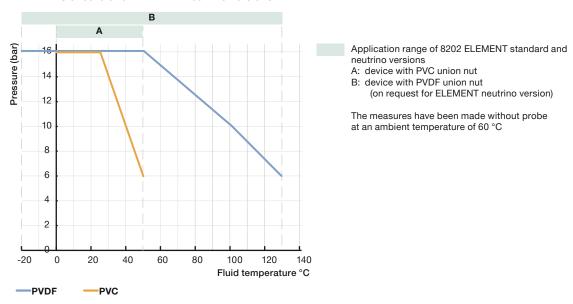
No.	Element
1	Probe head
2	PG 13.5
3	Compression washer (its height has to be adjusted if the H dimension on the probe is not between 34 and 46 mm.)
4	Seal



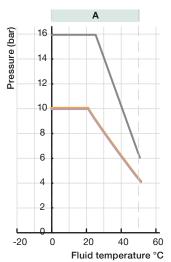
5. Performance specifications

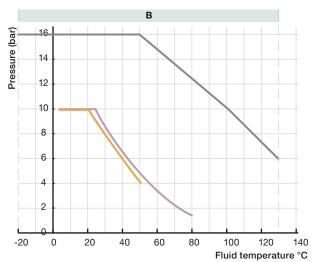
5.1. Pressure temperature diagram

ELEMENT standard and ELEMENT neutrino versions



ELEMENT standard and **ELEMENT** neutrino versions installed with an S022 adaptor





Application range of 8202 device ELEMENT standard and neutrino versions with S022 adaptor,

A: device with PVC union nut

B: device with PVDF union nut (on request for ELEMENT neutrino version)

—PVC —PP —Metal



6. Product installation

6.1. Installation notes

Note:

If a suitable 120 mm pH or ORP probe from a supplier other than Bürkert is used, the installation instructions for the specific pipe must be observed.

The 8202 ELEMENT pH/ORP transmitter can be installed into any adaptor with G $1\frac{1}{2}$ " external threaded sensor connection by just fixing the main nut. Select the required adaptor, taking in account the specific requirements of the sensor and adapter material (temperature and pressure), and install it in a vertical position or with an angle of $\pm 75^{\circ}$ max. relative to the vertical on a horizontal pipe.

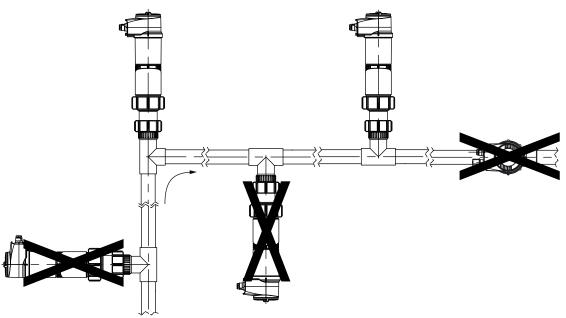


For mounting on a tank or direct mounting on a pipe (DN 100 or DN 110), an adaptor with a G 1½" external threaded sensor connection must be used.

See data sheet Type S022 ▶ for more information about adaptor.

After having connected the pH or redox probe to the 8202 transmitter and having calibrated the unit, carefully install the complete unit on the fitting. In order obtain reliable measurements air bubbles must be avoided.

Please ensure that the mounting location provides a continuous and complete immersion of the probe in the flow stream.



The probe must be continuously immersed into the measuring fluid in order to protect it from drying out.

The device must be protected from constant heat radiation and other environmental influences, such as direct exposure to sunlight.

7. Product operation

7.1. Measuring principle

The 8202 ELEMENT device can be used as a pH or an ORP meter according to the 8203 probe version mounted into the holder. The 8203 pH or redox probe is a glass membrane with variable selectivity according to the pH or the redox, which must be calibrated with a buffer solution before the installation of the device into the pipe.

- When a pH probe is immersed into the solution a difference in potential is formed due to ions (H+) between the glass membrane
 and the solution. This difference in potential measured in relation to a reference electrode is directly proportional to the pH value
 (59.16 mV per pH unit at 25 °C).
 - The pH sensor can be calibrated in 1-point (Offset at pH 7) or in 2-points (Offset at pH 7 and Span at pH 4 or pH 10).
- When a redox probe is immersed in a solution, an exchange of electrons occurs based on the oxidizing and reducing effects of an electrolyte. The resulting voltage is the oxidation reduction potential. The ORP sensor can only be calibrated in 1-point (Offset).



The meter is either a two wire device (3 outputs transmitter ELEMENT standard version or ELEMENT neutrino version) or a three wire device (4 outputs transmitter ELEMENT standard version) which requires a power supply of 14 V DC (3 outputs transmitter ELEMENT standard version) or 12 V DC (4 outputs transmitter ELEMENT standard version or ELEMENT neutrino version) up to 36 V DC and delivers a 4...20 mA standard signal proportional to the pH or to the redox potential as output signal.

The electrical connection is provided via one or two M12 fixed connectors for the ELEMENT standard version or via one free positionable M12 male fixed connectors or terminal strip through cable gland for the ELEMENT neutrino version.

8. Product design and assembly

8.1. Product assembly

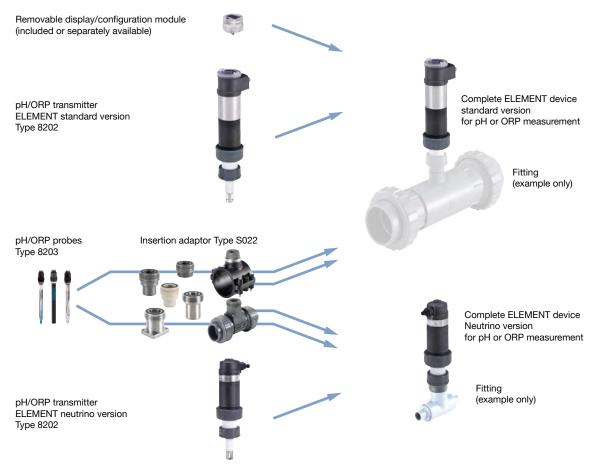
Note:

The 8202 transmitter can easily be installed into piping systems or vessels by using the S022 adaptor/fitting with G 1½" external threaded sensor connection.

See data sheet Type S022 ▶ and data sheet Type 8203 ▶ for more information.

The pH/ORP meter consists of a replaceable 120 mm pH or ORP probe, Type 8203, which is screwed in a probe holder with integrated Pt1000 temperature sensor. This ensemble is plugged-in and screwed with a union nut to an enclosure with a cover containing the electronic module.

A removable display/configuration module complements the ELEMENT standard transmitter version. The pH/ORP meter can operate independently of this module, but it will be required for configuration of the device (i.e. set parameters, restore default parameters, configure information to be displayed, enter access codes, adjust 4...20 mA output(s) ...) and also for visualizing continuously the measured and processed data.

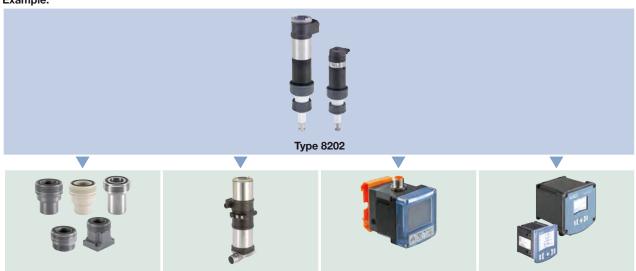


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9. Networking and combination with other Bürkert products

Example:



Type S022 ▶ Insertion adaptor/fitting for ELEMENT analytical measurement devices

Type 8802 ▶ **ELEMENT** continuous control valve systems





10. Ordering information

10.1. 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.

10.2. Recommendation regarding product selection

Note:

- A complete pH or ORP measurement equipment consists of a pH or ORP transmitter Type 8202 (ELEMENT standard or ELEMENT neutrino version), a removable display/configuration module (only for ELEMENT standard version), a 8203 pH or ORP probe and a Bürkert Insertion adaptor Type S022.
- When you order standard version devices without display/configuration module, please take care that you also order at least one display/configuration module for parametrising the device (see chapter "10.5. Ordering chart accessories" on page 17).

See data sheet Type 8203 ▶ and data sheet Type S022 ▶ for more information.

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

- Article no. of the desired 8202 ELEMENT pH or ORP transmitter standard without display/configuration module or ELEMENT neutrino version (see chapter "10.4. Ordering chart" on page 16.)
- Article no. of the removable display/configuration module, if necessary for the standard version (see chapter "10.5. Ordering chart accessories" on page 17.)
- Article no. of the desired 8203 pH or ORP probe (see data sheet Type 8203 ▶.)
- Article no. of the selected S022 Insertion adaptor with G 11/2" external threaded sensor connection (see data sheet Type S022).)



10.3. 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 easily.

Try out our product filter

10.4. Ordering chart

ELEMENT standard version

Note:

- All settings as well as the digital output have to be adjusted with the optional available display/configuration module (to be ordered separately).
- All following Article no.s. have a transparent cover as standard and an integrated Pt1000.

Operating voltage	Output	Probe	Nut material	UL certification	Electrical connection ^{1,)}	Article no.
1436 V DC	3 outputs: 2xtransistors NPN/PNP +1x420 mA (2 wires)	None	PVC	_	5 pin M12 male fixed connector	559630 ≒
				UL-Recognized		559634 🛱
			PVDF	_		559632 📜
				UL-Recognized		559636 ≒
1236 V DC	4 outputs: 2×transistors NPN/PNP +2×420 mA (3 wires)	None	PVC	_	5 pin M12 male and 5 pin M12 female fixed connectors	559631 ≒
				UL-Recognized		559635 📜
			PVDF	_		559633 ≒
				UL-Recognized		559637 🛱

^{1.)} Order separately (see chapter "10.5. Ordering chart accessories" on page 17): M12 cable plugs (only female for one 4...20 mA output, 1 male +1 female for two 4...20 mA outputs flowmeter)

ELEMENT neutrino version

Operating voltage	Output	Probe	Nut material	UL certification	Electrical connection ^{1,)}	Article no.
1236 V DC	1 × 420 mA (2 wires)	None	PVC	_	5 pin M12 male fixed connector	561685 🖼
				UL-Recognized		562557 ≒
				_	Cable gland	561686 ≒
				UL-Recognized		562558 🛱
			PVDF	_	5 pin M12 male fixed connector	562868 ≒
				UL-Recognized		568866 ≒
				_	Cable gland	563518 ≒
				UL-Recognized		On request

^{1.)} Order separately (see chapter "10.5. Ordering chart accessories" on page 17): M12 female cable plug



10.5. Ordering chart accessories

Description	Article no.			
For all versions				
One Ø 46 x 2 mm EPDM seal for 120 mm probe holder (with instruction sheet)	559169 🖼			
Probe holder with PVC union nut	560947 ≒			
Probe holder with PVDF union nut	561476 ≒			
5 pin M12 female straight cable plug with plastic threaded locking ring, to be wired	917116 🛱			
5 pin M12 female straight cable plug moulded on cable (2 m, shielded)	438680 ≒			
For ELEMENT standard version				
Removable display/configuration module (with instruction sheet)	559168 🛱			
Opaque cover with seal (1 screw cover with EPDM seal + 1 quarter turn closing cover with silicone seal)	560948 ≒			
Transparent cover with seal (1 screw cover with EPDM seal + 1 quarter turn closing cover with silicone seal)	561843 ≒			
5 pin M12 male straight cable plug with plastic threaded locking ring, to be wired	560946 ≒			
5 pin M12 male straight cable plug moulded on cable (2 m, shielded)	559177 ∖≕			
For ELEMENT neutrino version				
EPDM seal for cover/housing sealing	561752 📜			

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