



Conductivity meter, ELEMENT design

- · Perfect for clean water and slightly concentrated liquids
- Compact measurement device for direct connection to PLC
- Parameterisation, calibration and transfer of parameterisation data all possible thanks to a removable display/configuration module
- Simulation of process values for diagnostics
- Universal process connection, three different cell constants to cover a wide range of applications such as reverse osmosis

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





Can be combined with



Type 8611 eCONTROL - Universal controller



Type 8619 multiCELL - Multi-channel

and multi-function transmitter/controller



Type 8693

Digital electro-pneumatic process controller for integrated mounting on process control valves



Type 8802

ELEMENT continuous control valve systems overview



Type S022

Insertion adaptor/fitting for ELEMENT analytical measurement devices

Type description

The Bürkert conductivity meter Type 8222 is designed for measuring the conductivity of fluids.

The sensor element comprises a two-electrode cell and a Pt1000 temperature probe. The sensor itself is available with three different cell constants C. These with C=0.01 or 0.1 cm⁻¹ are fitted with stainless steel electrodes and those with C=1.0 cm⁻¹ are fitted with graphite electrodes. Thus, due to the measurement device's design, Bürkert has simplified installation and maintenance work.

The device Type 8222 is available in two variants.

The first one, the so-called ELEMENT standard is proposed either with three adjustable outputs (two digital outputs and one analogue output) or with four adjustable outputs (two digital and two analogue) and can be equipped with a display. The display is only necessary for start-up, configuration (e.g. measuring range, units, calibration, thresholds) or as a display of process values.

The second variant, the so-called ELEMENT neutrino is a 2-wire device, without display, with a 4...20 mA current output or with a digital communication mode that can communicate either in IO-Link or in büS (Bürkert system bus based on CAN-

Both variants are available with a G 11/2" union nut for installation in an adaptor with a G 11/2" external thread sensor connection. The adaptor is mounted into the process. The ELEMENT neutrino variant is also proposed with a G ¾" external thread for screwing into an adaptor with a G ¾" internal thread sensor connection.

The device Type 8222 converts the measuring signal and computes the output signals, which are provided via one or two M12 plug connections for the ELEMENT standard variant as well as via one M12 plug connection or on a terminal strip via a cable gland for the ELEMENT neutrino variant. The device in the ELEMENT standard variant shows several values in different measuring units (if display is mounted).



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1. General technical data

1.1. About the device

The conductivity measurement device consists of a sensor available with three cell constants C plugged-in and pinned to the transmitter. The device is available in an ELEMENT standard variant or in an ELEMENT neutrino variant. The process connection of both variants is made via a G $1\frac{1}{2}$ " nut in PVC or PVDF; or for the ELEMENT neutrino variant via a G $\frac{3}{4}$ " thread.

The ELEMENT standard variant is available with up to two 4...20 mA analogue outputs or with up to two transistor outputs. The ELEMENT neutrino variant is available with a 4...20 mA analogue output or with digital communication.

The device with digital communication is distinguished by a status indicator on the cover, and is offered with a housing in metal (so-called metallic variant) or in plastic (so-called all-plastic variant for corrosive environmental conditions like in the electronic & semiconductor industry market).

The metallic variant is provided with a digital IO-Link and büS (Bürkert system bus, CANopen protocol) communication, the all-plastic variant with a digital IO-Link communication (büS available only for service activities such as configuration or calibration).

1.2. All variants

Note:

- · The following data applies to all variants mentioned above.
- 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

Make sure the device materials are compatible with the fluid you are using. Further information can be found in chapter "3.1. Bürkert resistApp" on page 10.

Further information on the materials can be found in chapter "3.2. Material specifications" on page 10.

Further information on the materials can be found in chapter "3.2. Material specifications" on page 10.					
Wetted parts					
Probe holder	PVDF, stainless steel 1.4571 (316Ti)				
Electrode	For cell constant:				
	• C = 0.01 cm ⁻¹ : stainless steel 1.4571 (316Ti)				
	• C=0.1 cm ⁻¹ : stainless steel 1.4571 (316Ti)				
	• C = 1 cm ⁻¹ : graphite				
Compatibility	Any pipe which is fitted with Bürkert S022 adaptor. See data sheet Type S022 ▶ for more information.				
Pipe diameter	DN 32DN 110 (DN 06DN 25 under specific conditions)				
Dimensions	Further information can be found in chapter "4. Dimensions" on page 12.				
Probe	With cell constant				
	• C = 0.01 cm ⁻¹				
	• C=0.1 cm ⁻¹				
	• C = 1 cm ⁻¹				
Temperature sensor	Pt1000 integrated within the holder				
Measuring range					
Conductivity measurement	0.05 μS/cm10 mS/cm				
Temperature measurement	-20+ 100 °C (-4+212 °F)				
Performance data					
Conductivity measurement					
Measurement deviation	±3% of measured value				
Measuring range resolution	1 nS/cm				
Temperature measurement					
Measurement deviation	±1 °C (1.8 °F)				
420 mA output uncertainty	±1% of current range				
Electrical data					
Power source (not supplied)	Limited power source according to UL/EN 62368-1 standards or limited energy circuit according to UL/EN 61010-1 paragraph 9.4				
DC reverse polarity protection	Yes				
Overvoltage protection	Yes				

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Medium data					
Fluid temperature	Device with				
	 G 1½" PVC union nut connection: 0+50 °C (+32+122 °F) 				
	 G 1½" PVDF union nut connection (on request for ELEMENT neutrino variant): -20+100 °C (-4+212 °F) restricted by the used adaptor Restriction with adaptor S022 in: 				
	- PVC: 0+50 °C (+32+122 °F)				
	- PP: 0+80 °C (+32+176 °F)				
	- metal: -20+100 °C (-4+212 °F)				
Fluid pressure 1.)	Max. PN 16 (232 PSI) Further information can be found in chapter "5.1. Pressure temperature diagram" on page 14 (depends on selected probe).				
Process/Pipe connection & co	ommunication				
Process connection	G 1½" internal thread for use with Type S022 adaptor See data sheet Type S022 ▶ for more information.				
Approvals and conformities					
Directives					
CE directive	Further information on the CE directive can be found in chapter "2.3. Standards" on page 9.				
Pressure equipment directive	Complying with article 4, paragraph 1 of 2014/68/EU directive Further information on the pressure equipment directive can be found in chapter "2.4. Pressure Equipment Directive (PED)" on page 9.				
North America (USA/Canada)	UL Recognized for the USA and Canada				
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, ultraviolet rays and, when installed outdoors, 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				

^{1.)} Not evaluated by UL

1.3. ELEMENT standard variant



Product properties

Material

Further information on the materials can be found in chapter "3.2. Material specifications" on page 10.

Non wetted parts

Cover Polycarbonate (PC), transparent (opaque on request)

Housing Stainless steel 1.4404 (316L), PPS Screw Stainless steel 1.4401 (316 (A4))
Grounding terminal and screw Stainless steel 1.4301 (304 (A2))

Inion nut PVC or PVDF

Display/configuration module PC
Navigation key PBT

Seal EPDM, silicone
Fixed connector holder PPS CF30
Fixed connector Nickel-plated brass

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Temperature compensation	None or			
	According to a predefined graph			
	- linear or			
	- NaCl or			
	- ultra pure water or			
	According to a graph defined especially for your process			
Concentration	Conversion of conductivity to dissolved electrolyte concentration (Total dissolved solids (TDS)) by using a user adjustable factor.			
Product accessories				
Display/configuration module	Grey dot matrix 128 x 64 with backlighting			
Performance data				
Conductivity measurement				
Minimal scale	2 % of the full scale (i.e. for the sensor with C = 0.1: range from 100104 μ S corresponds to 420 mA current output)			
Temperature measurement				
Measuring range resolution	0.1 °C (0.18 °F)			
Minimal scale	10 °C (i.e. +10+20 °C (+50+68 °F) corresponds to 420 mA)			
Electrical data				
Operating voltage	 3 outputs transmitter (2-wire) variant: 1436 V DC, filtered and regulated 			
	 4 outputs transmitter (3-wire) variant: 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) variant: ≤25 mA (at 14 V DC without transistors load, with current loop)			
	 4 outputs transmitter (3-wire) variant: ≤5 mA (at 12 V DC without transistors load, without current loop) 			
Output				
Digital output	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			
Analogue output	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) variant) 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) variant) max. loop impedance: 1100 Ω at 36 V DC, 610 Ω at 24 V DC, 100 Ω at 12 V DC 			
Voltage supply cable	The female M12 connector and/or the male M12 connector are not included in the delivery and must be ordered separately, see chapter "11.5. Ordering chart accessories" on page 23. For these connectors, use a shielded cable with:			
	• diameter: 36.5 mm			
	 cross section of wires: max. 0.75 mm² 			
Process/Pipe connection & co	mmunication			
Electrical connection	3 outputs transmitter (2-wire) variant: 1 x 5-pin M12 male connector			
	• 4 outputs transmitter (3-wire) variant: 1x5-pin M12 male and 1x5-pin M12 female connectors			
Approvals and conformities				
Foods and beverages/Hygiene	FDA declaration of conformity			

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Environment and installation

Degree of protection 1.) according to IEC/EN 60529

rding IP65, IP67 under the following simultaneous conditions:

- · device wired
- · cover screwed tight
- M12 connector mounted and tightened

1.4. ELEMENT neutrino variant



Product properties

Material

Further information on the materials can be found in chapter "3.2. Material specifications" on page 10.

Non wetted parts

Cover PP

Light guide Digital communication variant: PC, PMMA and NBR88

Housing
 Analogue output variant: stainless steel 1.4404 (316L), PPS

• Digital communication variant:

- stainless steel 1.4404 (316L), PPS (metallic variant)

- PPS (all-plastic variant)

Grounding terminal Nickel-plated brass (only metallic variant)

Union nut PVC (PVDF on request)

Seal EPDM

Fixed connector • Analogue output variant: PA66

Digital communication variant:

- nickel-plated brass (metallic variant)

PA66 (all-plastic variant)

Cable gland Analogue output variant: PA66

Temperature compensation

None or

· According to a predefined graph

- linear (only for digital communication variant) or

- NaCl or

- ultra pure water (only with C=0.01)

Electrical	aata
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

• Analogue output variant: ≤25 mA (with sensor)

Digital communication variant: ≤50 mA (with sensor)

Input/Output

Digital input/output

Digital communication variant: through the communication interface

• Bürkert system bus (büS)/CANopen

• IO-Link

Analogue output

Analogue output variant:

current of 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

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^{1.)} Not evaluated by UL



Voltage supply cable

• For connector:

The female M12 connector is not included in the delivery and must be ordered separately, see chapter "11.5. Ordering chart accessories" on page 23.

For this connector, use according to the output of the device:

- a shielded cable with:
 - diameter of 3...6.5 mm
 - cross section of wires: max. 0.75 mm²
- a Canopen standard cable for Bürkert system bus (büS)/CANopen communication, max. 50 m
- a standardised industrial cable (unshielded 3- or 4-wire cable) for IO-Link communication, max. 20 m length
- 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

Medium data

Fluid temperature

- Device with G ¾" external threaded connection: -20...+100 °C (-4...+212 °F) restricted by the used adaptor
- Restriction with adaptor S022 in PVC: 0...+50 °C (+32...+122 °F)

Process/Pipe connection & communication

G 3/4" external threaded for use with Type S022 adaptor Process connection See data sheet Type S022 ▶ for more information. **Flectrical connection** • 1x5-pin free positionable M12 male connector or

• Terminal strip via 1x cable gland M16×1.5

Data transfer

Digital communication: büS

External communication

Through büS (Bürkert system bus, CANopen protocol)

Digital communication: IO-Link

Communication interface

IO-Link device V1.1.2

SIO mode

Baud rate (data transfer rate)

COM 3 (230.4 kBaud)

Type of ports Cycle time

Class A

Min. 5 ms

Process data width

IO-Link data storage

48 Input bits, 8 Output bits

Block configuration

Yes

IO device description (IODD)

The device description is available in the operating instructions which can be found on our website

under the "User Manuals" heading for Type 8222 ▶. Alternatively, see "Device Description Files" under the "Software" heading for Type 8222 ▶ or at https://ioddfinder.io-link.com

Environment and installation

Degree of protection

- IP65 ^{1.)}, IP67 ^{1.)} (according to IEC/EN 60529)
- NEMA 4X and NEMA 6P (according to NEMA250) (with device installed on the fitting)
- UL50F

under the following simultaneous conditions:

- · device wired
- cover screwed tight
- · M12 connector or glands mounted and tightened
- · with blind plug on unused cable glands

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^{1.)} Not evaluated by UL



2. Approvals and conformities

2.1. General notes

- The approvals and conformities 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 variants of the device can be supplied with the below mentioned approvals or conformities.

2.2. Conformity

In accordance with the Declaration of Conformity, the product is compliant with the EU Directives.

2.3. Standards

The applied standards which are used to demonstrate compliance with the EU Directives are listed in the EU-Type Examination Certificate and/or the EU Declaration of Conformity.

2.4. Pressure Equipment Directive (PED)

The device conforms to article 4, paragraph 1 of the Pressure Equipment Directive (PED) 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 (in bar), 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 (in bar), 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		

2.5. North America (USA/Canada)

Approval Optional: UL Recognized for the USA and Canada The products are UL Recognized for the USA and Canada according to: UL 61010-1 CAN/CSA-C22.2 No. 61010-1

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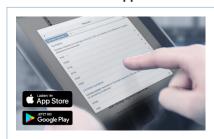


2.6. Foods and beverages/Hygiene

Conformity	Description
FDA	FDA – Code of Federal Regulations (valid for the variable code PL02, PL03) The devices are compliant with the Code of Federal Regulations published by the FDA (Food and Drug Administration, USA) according to the manufacturer's declaration.

3. Materials

3.1. Bürkert resistApp



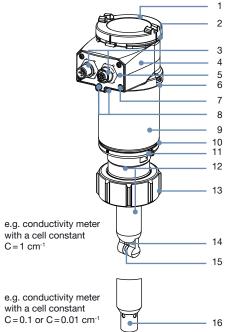
Bürkert resistApp - Chemical resistance chart

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 variant



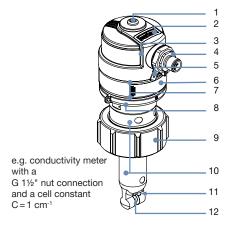
No.	Element	Material
1	Cover	PC
2	Seal	Silicone
3	M12 fixed connector (female/ male)	Nickel-plated brass
4	Housing (top)	PPS
5	Fixed connector holder	PPS CF30
6	Seal	EPDM
7	Screws	Stainless steel 1.4301 (304 (A2))
8	Grounding terminal and screw	Stainless steel 1.4401 (316 (A4))
9	Housing (body)	Stainless steel 1.4404 (316L)
10	Seal	EPDM
11	Housing (base)	PPS
12	Probe holder	PVDF
13	Union nut	PVC or PVDF
14	Pt probe (C=1 cm ⁻¹)	Stainless steel 1.4571 (316Ti)
15	Electrode (C=1 cm ⁻¹)	Graphite
16	Pt Probe, electrode (C = 0.1 or 0.01 cm ⁻¹)	Stainless steel 1.4571 (316Ti)

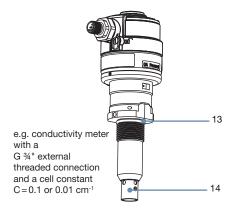
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ELEMENT neutrino variant





No.	Element	Material	
1	Light guide	PC, PMMA and NBR88 (only digital communication variant)	
2	Cover	PPS	
3	Seal	EPDM	
4	M12 male fixed connector	PA66 (420 mA output variant and digital communication all-plastic variant)	
		 Nickel-plated brass (digital communication metallic variant) 	
	or cable gland	PA66 (only 420 mA output variant)	
5	Grounding terminal	Nickel-plated brass (only digital communication metallic variant)	
6	Housing (top)	PPS (digital communication all-plastic variant)	
		Stainless steel 1.4404 (316 L), PPS	
		(420 mA output variant and digital communication metallic variant)	
7	Seal	EPDM	
8	Housing (base)	PPS	
9	Union nut	PVC (or PVDF on request)	
10	Probe holder	PVDF	
11	Pt probe (C=1 cm ⁻¹)	Stainless steel 1.4571 (316Ti)	
12	Electrode (C=1 cm ⁻¹)	Graphite	
13	Seal	EPDM	
14	Pt Probe, electrode (c=0.1 or 0.01 cm ⁻¹)	Stainless steel 1.4571 (316Ti)	

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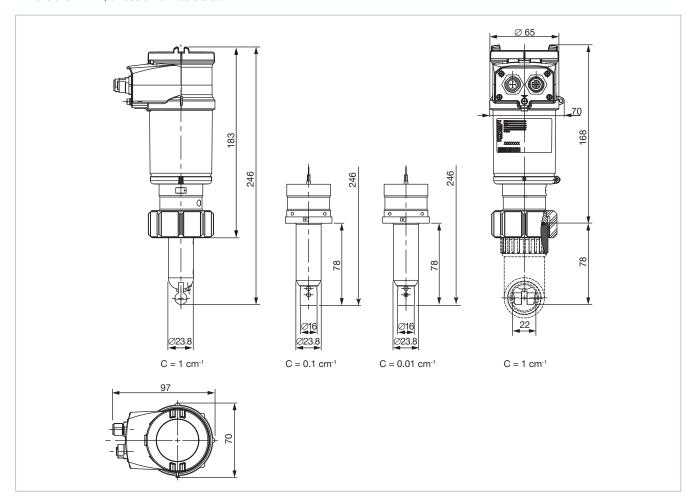


4. Dimensions

4.1. ELEMENT standard variant

Note:

Dimensions in mm, unless otherwise stated



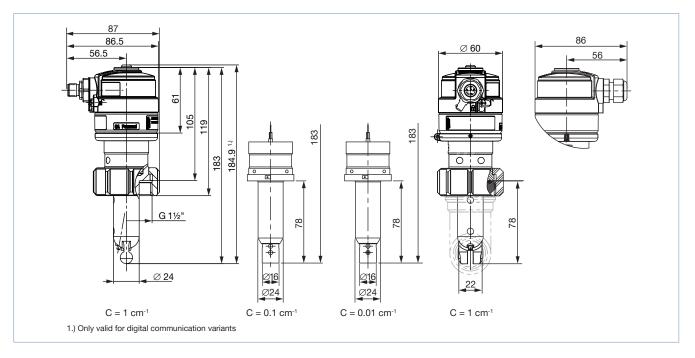


4.2. ELEMENT neutrino variant

With a G 11/2" union nut connection

Note:

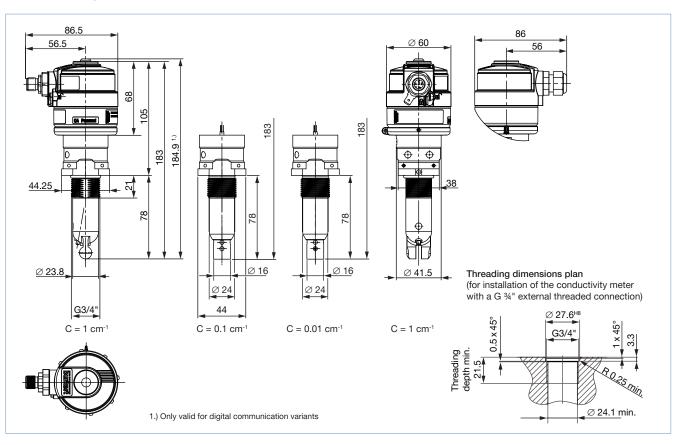
Dimensions in mm, unless otherwise stated



With a G 34" external threaded connection

Note:

Dimensions in mm, unless otherwise stated



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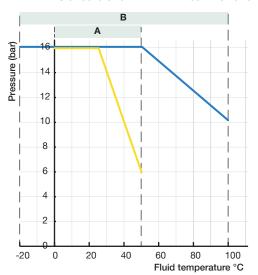
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5. **Performance specifications**

5.1. Pressure temperature diagram

ELEMENT standard and ELEMENT neutrino variants



Application range of 8222 ELEMENT standard and neutrino versions

A: device with PVC union nut

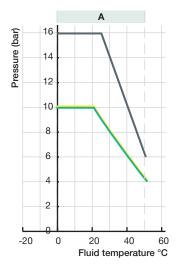
B: device with

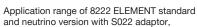
- a PVDF union nut connection
- (on request for ELEMENT neutrino version) or
- with a G 3/4" external threaded connection (only for ELEMENT neutrino version)

The measures have been made at an ambient temperature of 60 °C

-PVDF PVC

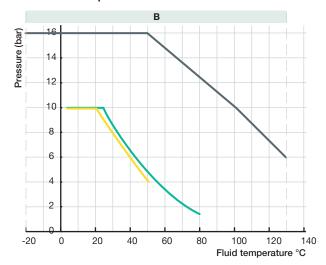
ELEMENT standard and **ELEMENT** neutrino variants installed with an S022 adaptor

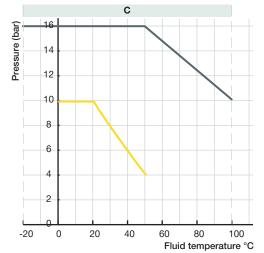




- A: device with PVC union nut
- B: device with PVDF union nut
- (on request, for ELEMENT neutrino version)
- C: device with a G 3/4" external threaded connection (only for ELEMENT neutrino version)









6. **Product installation**

6.1. Installation notes

The ELEMENT standard or neutrino conductivity meter Type 8222 can be installed into any adaptor with G 1½" external threaded sensor connection by just fixing the union nut. The ELEMENT neutrino conductivity meter with G 3/4" external threaded connection can be installed into any adaptor with G ¾" internal threaded (further information on threading dimensions plan can be found in chapter "With a G ¾" external threaded connection" on page 13).

Select the required adaptor, taking in account the specific requirements of the sensor and adapter material (temperature and pressure), and install it on a pipe.

For a mounting on a tank or a direct mounting on a pipe (DN 100 or DN 110), an adaptor with a G 11/2" external threaded sensor connection or with a G ¾" internal threaded sensor connection (depending on conductivity meter variant) must be used.

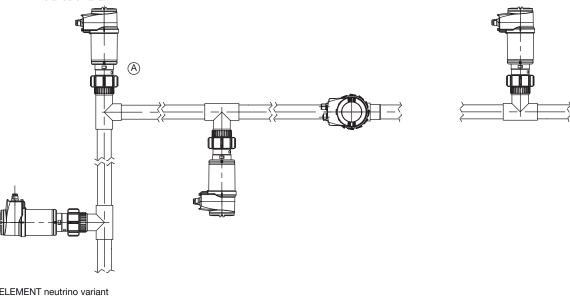
See data sheet Type S022 ▶ for more information about adaptor.

Carefully install the unit on the fitting. It can be installed in any position (prefer "A" mounting to install an 8222 neutrino with sensor C=0.1 or C=0.01 cm⁻¹).

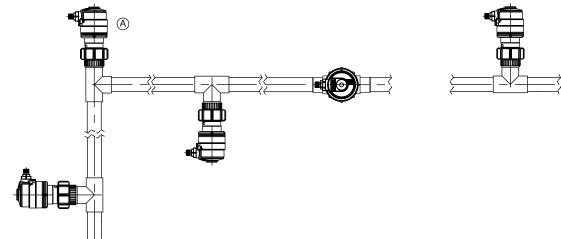
In order obtain reliable measurements air bubbles must be avoided.

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

ELEMENT standard variant



ELEMENT neutrino variant



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

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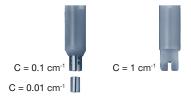
7. Product operation

7.1. Measuring principle

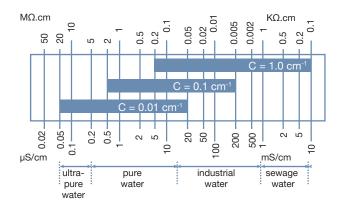
Conductivity is defined by the property of a solution to conduct electrical current. The charge carriers are ions (e.g. dissolved salts or acids). Regarding this device, the measurement cell consists of two electrodes which are set at a fixed distance apart and with a known specified surface. The measured current is a direct function of the quantity of ions contained in the solution, and with help of Ohm's law the conductivity is calculated.

There are countless types of conductivity probes whose measurement values vary by a great margin - depending on the electrode assembly. To compensate for the geometry of the conductivity cell a cell constant is used: Conductivity [S/cm] = Measurement [S] x Cell constant [1/cm].

The conductivity transmitter can be fitted with 3 different measuring cells with constants C=0.01; 0.1 and 1.0 cm⁻¹.



The sensor is selected according to the measuring range and medium by using the table below.



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

The measurement range on which the 4...20 mA output must match is selectable for

- the ELEMENT standard variant through a display/configuration module and
- the ELEMENT neutrino variant through a rotary switch. This measurement range can also be customized on request (contact your nearest Bürkert office).

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



8. Product design and assembly

8.1. Product assembly

Note:

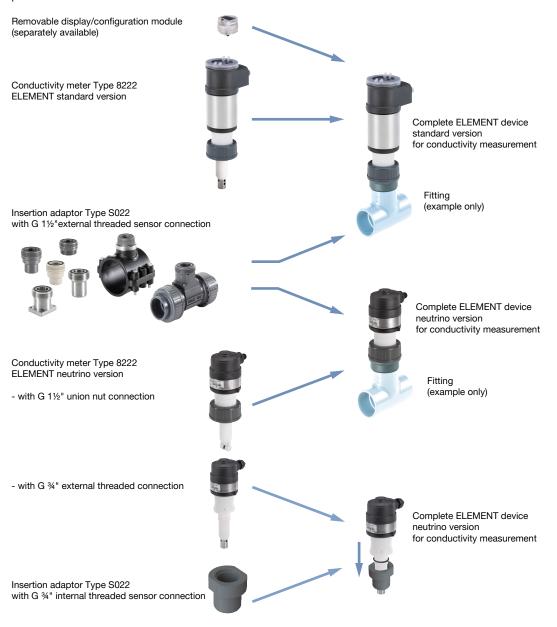
The Type 8222 device can be installed with the help of the Type S022 adaptor or fitting with

- G 1½" external threaded sensor connection for ELEMENT standard and neutrino variant or
- G ¾" internal threaded connection for only ELEMENT neutrino variant into pipe systems or containers.

See data sheet Type S022 ▶ for more information.

The conductivity meter consists of a sensor available with three different cell constants C, plugged-in and pined to an enclosure with cover, containing the electronic module. The sensor holder comprises a cell with two electrodes and a Pt1000 temperature sensor.

A removable display/configuration module complements the ELEMENT standard device variant. The conductivity 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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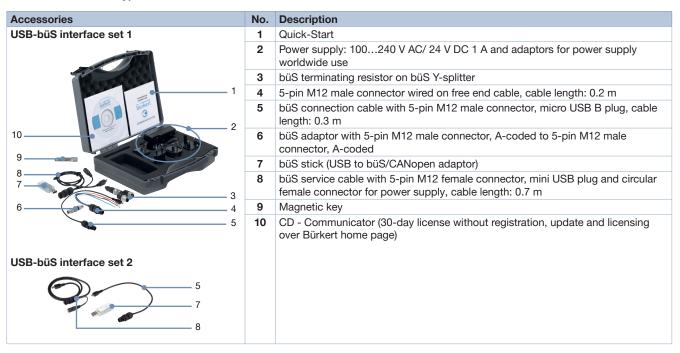


9. Product accessories

Note:

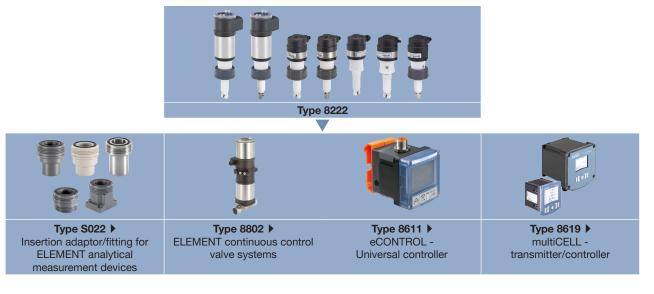
To configure a device with a digital communication, use the USB-büS interface Type 8923 and the Bürkert Communicator software Type 8920.

See **Software manual Type 8920** ▶ for more information.



10. Networking and combination with other Bürkert products

Example:



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11. Ordering information

11.1. Bürkert eShop



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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

11.2. Recommendation regarding product selection

Note:

When only ordering devices without a display/configuration module, make sure that you have a display/configuration module at least for parameterising the device. Otherwise you must also order one (see chapter "11.5. Ordering chart accessories" on page 23).

A complete conductivity measurement equipment consists of an conductivity meter Type 8222 (ELEMENT standard or ELEMENT neutrino variant), a removable display/configuration module (only for ELEMENT standard variant) and a Bürkert Insertion adaptor Type S022 with a G 1½" external threaded (for ELEMENT standard or ELEMENT neutrino variant) or G ¾" internal threaded sensor connection (only for ELEMENT neutrino variant).

See data sheet Type S022 ▶ for more information.

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

- Article no. of the desired 8222 conductivity meter ELEMENT standard variant without display/configuration module or ELEMENT neutrino variant (see chapter "11.4. Ordering chart" on page 20)
- Article no. of the removable display/configuration module, if necessary for the ELEMENT standard variant (see chapter "11.5. Ordering chart accessories" on page 23)
- Article no. of the selected S022 Insertion adaptor with G 1½" external threaded (for ELEMENT standard or ELEMENT neutrino variant with union nut) or G ¾" internal threaded sensor connection (only for ELEMENT neutrino variant to be screwed). See data sheet
 Type S022 >.

11.3. Bürkert product filter



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11.4. Ordering chart

ELEMENT standard variant

Note:

- All settings as well as the digital output have to be configured with the display/configuration module (must be ordered separately).
- The following article nos. have a transparent cover as standard and an integrated Pt1000.

Operating voltage	Probe	Output	Nut material	UL approval	Electrical connection 1.)	Article no.
1436 V DC	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2xtransistors NPN/PNP	PVC	_	5-pin M12 male connector	559618 ≒
				UL Recognized		562394 ≒
		+1×420 mA (2 wires)	PVDF	_		559620 ≒
				UL Recognized		562396 ≒
	$C = 0.1 \text{ cm}^{-1}$		PVC	_		559614 ≒
				UL Recognized		559624 ≒
			PVDF	_		559616 ≒
				UL Recognized		559626 ≒
	C = 1.0 cm ⁻¹	PVC	_		559610 ≒	
			UL Recognized		559638 ≒	
			PVDF	_		559612 ≒
				UL Recognized		559622 ≒
1236 V DC	2xtran	4 outputs: 2xtransistors NPN/PNP	PVC	_	5-pin M12 male and 5-pin M12 female connectors	559619 ≒
				UL Recognized		562395 ≒
		+2×420 mA (3 wires)	PVDF	_		559621 ≒
				UL Recognized		562397 ≒
	C = 0.1 cm ⁻¹		PVC	_		559615 ≒
				UL Recognized		559625 ≒
			PVDF	_		559617 ≒
			UL Recognized		559627 ≒	
	C = 1.0 cm ⁻¹		PVC	_	-	559611 ≒
				UL Recognized		559639 ≒
			PVDF	_		559613 ≒
				UL Recognized		559623 ≒

^{1.)} Must be ordered separately (see chapter "11.5. Ordering chart accessories" on page 23): M12 male/female connectors (only female for the variant with one 4...20 mA output, 1 male +1 female for the variant with two 4...20 mA outputs of the device)

Further variants on request



Additional

Pre-parameterized devices with configuration: 2- or 4-outputs, filter, temperature compensation, threshold, etc.





Certification and Calibration

Calibration certificates

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ELEMENT neutrino variant with a 4...20 mA output

Operating voltage	Probe	Output	Nut material	UL approval	Electrical connection 1.)	Article no.		
Variant with G 1½" union nut								
1236 V DC	C = 0.01 cm ⁻¹	1 x 420 mA (2 wires)	PVC	_	5-pin M12 male connector	561661 ≒		
				UL Recognized		562545 ≒		
			PVDF	_		562503 ≒		
				UL Recognized		On request		
			PVC	_	Cable gland	561662 ≒		
				UL Recognized		562546 ≒		
			PVDF	_		562652 ≒		
				UL Recognized		567396 ≒		
	C = 0.1 cm ⁻¹		PVC	_	5-pin M12 male connector	561663 ≒		
				UL Recognized		562547 ≒		
			PVDF	_		562478 ≒		
				UL Recognized		On request		
			PVC	_	Cable gland	561664 ≒		
				UL Recognized		562548 ≒		
			PVDF	_		562479 ≒		
				UL Recognized		567357 ≒		
	C = 1.0 cm ⁻¹	P ¹	PVC	_	5-pin M12 male connector	561665 ≒		
				UL Recognized		562549 ≒		
			PVDF	_		562271 ≒		
				UL Recognized		On request		
			PVC	_	Cable gland	561666 ≒		
				UL Recognized		562550 ≒		
			PVDF	_		562653 ≒		
				UL Recognized		568024 ≒		
Variant with G	34" external th	readed						
1236 V DC	C = 0.01 cm ⁻¹		_	_	5-pin M12 male connector	561667 ≒		
				UL Recognized		562551 ≒		
				_	Cable gland	561668 ≒		
				UL Recognized		562552 ≒		
	C = 0.1 cm ⁻¹			_	5-pin M12 male connector	561669 ≒		
				UL Recognized		562553 ≒		
				_	Cable gland	561670 ≒		
				UL Recognized		562554 ≒		
	C = 1.0 cm ⁻¹			_	5-pin M12 male connector	561671 ≒		
				UL Recognized		562555 ≒		
				_	Cable gland	561672 ≒		
				UL Recognized		562556 ≒		

^{1.)} Must be ordered separately (see chapter "11.5. Ordering chart accessories" on page 23): M12 female connector

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ELEMENT neutrino variant with digital communication

Note:

The communication protocol is selected automatically by the device depending on the master controlling it.

Operating voltage	Probe	Output	Nut material	UL approval	Electrical connection 1.)	Article no.
	nt with G 1½" u	inion nut				
	C = 0.01 cm ⁻¹		PVC	_	5-pin M12 male connector	574248 ≒
				UL Recognized		574249 🖼
			PVDF	_		574254 ≒
				UL Recognized		-
	C = 0.1 cm ⁻¹		PVC	_		574250 ≒
				UL Recognized		574251 ≒
			PVDF	_		574255 ≒
				UL Recognized		-
	$C = 1.0 \text{ cm}^{-1}$		PVC	_		574252 ≒
				UL Recognized		574253 ≒
			PVDF	_		574256 ≒
				UL Recognized		-
Metallic varia	nt with G ¾" ex	ternal threaded				
1236 V DC	C = 0.01 cm ⁻¹	J	_	_	5-pin M12 male connector	574257 ≒
		büS/CANopen		UL Recognized		574258 🖼
	C = 0.1 cm ⁻¹	communication		_		574259 🖼
				UL Recognized		574260 🖼
	$C = 1.0 \text{ cm}^{-1}$			_		574261 🖼
				UL Recognized		574262 📜
All-plastic var	iant with G 11/21	union nut				
1236 V DC	C = 0.01 cm ⁻¹	Digital IO-Link communi-	PVC	_	5-pin M12 male connector	574263 ≒
		cation		UL Recognized		574264 ≒
			PVDF	-		574269 ≒
				UL Recognized		_
	C = 0.1 cm ⁻¹		PVC	_		574265 ≒
				UL Recognized		574266 ≒
			PVDF	_		574270 ≒
				UL Recognized		_
	C = 1.0 cm ⁻¹		PVC	_		574267 🖼
				UL Recognized		574268 🛱
			PVDF	_		574271 🖼
				UL Recognized		-
•	1	external threaded			1	
1236 V DC	$C = 0.01 \text{ cm}^{-1}$ $C = 0.1 \text{ cm}^{-1}$	Digital IO-Link communication	_	-	5-pin M12 male connector	574272 📜
				UL Recognized		574273 📜
				-		574274 📜
				UL Recognized		574275 📜
	$C = 1.0 \text{ cm}^{-1}$			-		574276 📜
				UL Recognized		574277 📜

^{1.)} Must be ordered separately (see chapter "11.5. Ordering chart accessories" on page 23): M12 female connector

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11.5. Ordering chart accessories

Seals For ELEMENT neutrino variant EPDM seal for cover/housing sealing Spare part For ELEMENT standard variant For ELEMENT standard variant For ELEMENT standard variant For BLEMENT standard variant Opaque cover with seal (1 screw cover with EPDM seal +1 quarter turn closing cover with silicone seal) 561843 ≒ Transparent cover with seal (1 screw cover with EPDM seal +1 quarter turn closing cover with silicone seal) 561843 ≒ Electrical connection For all variants M12 female connector with plastic threaded clamping ring, 5-pin, straight, to be wired M12 female connector with moulded cable (shielded), 5-pin, straight, cable length: 2 m 438680 ≒ For ELEMENT standard variant M12 male connector with plastic threaded clamping ring, 5-pin, straight, to be wired M12 male connector with plastic threaded clamping ring, 5-pin, straight, cable length: 2 m 559177 ≒ Configuration accessory For ELEMENT standard variant Removable display/configuration module (with instruction sheet) For all variants Buffer solution, 300 ml, conductivity standard: 15 µS/cm, ±1 % accuracy 440015 ≒ Buffer solution, 300 ml, conductivity standard: 100 µS/cm, ±2 % accuracy 440017 ≒ Buffer solution, 300 ml, conductivity standard: 100 µS/cm, ±2 % accuracy 440017 ≒ Suffer solution, 300 ml, conductivity standard: 1413 µS/cm, ±1 % accuracy 440019 ≒ Suffer solution, 300 ml, conductivity standard: 100 µS/cm, ±2 % accuracy 440019 ≒ System Connect Type ME43 Gateway/Interface Industrial Ethernet gateway (PROFIBUS DPV1) Type ME61 Display Field Connect ME61 3.5° display (8.9 cm) EDIP Accessories buS Stick Set USB-būS interface set 1 (Type 8923) Further information can be found in chapter "9. Product accessories" on page 18. USB-būS interface set 2 (Type 8923) Further information can be found in chapter "9. Product accessories" on page 18.
For ELEMENT neutrino variant EPDM seal for measuring device with G ¾* external thread process connection ¹¹ 561955 \(\frac{1}{2} \) 561955 \(\frac{1}{2} \) Spare part For ELEMENT standard variant Opaque cover with seal (1 screw cover with EPDM seal +1 quarter turn closing cover with silicone seal) 561843 \(\frac{1}{2} \) Transparent cover with seal (1 screw cover with EPDM seal +1 quarter turn closing cover with silicone seal) 561843 \(\frac{1}{2} \) Transparent cover with seal (1 screw cover with EPDM seal +1 quarter turn closing cover with silicone seal) 561843 \(\frac{1}{2} \) Transparent cover with seal (1 screw cover with EPDM seal +1 quarter turn closing cover with silicone seal) 561843 \(\frac{1}{2} \) Transparent cover with seal (1 screw cover with EPDM seal +1 quarter turn closing cover with silicone seal) 561843 \(\frac{1}{2} \) Transparent cover with seal (1 screw cover with EPDM seal +1 quarter turn closing cover with silicone seal) 561843 \(\frac{1}{2} \) Transparent cover with seal (1 screw cover with EPDM seal +1 quarter turn closing cover with silicone seal) 561843 \(\frac{1}{2} \) Transparent cover with seal (1 screw cover with EPDM seal +1 quarter turn closing cover with silicone seal) 561843 \(\frac{1}{2} \) Transparent cover with seal (1 screw cover with EPDM seal +1 quarter turn closing cover with silicone seal) 561848 \(\frac{1}{2} \) Transparent cover with seal (1 screw cover with EPDM seal +1 quarter turn closing cover with silicone seal) 561848 \(\frac{1}{2} \) Transparent cover with seal (1 screw cover with seal (1 scr
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Spare part For ELEMENT standard variant Configuration accessory For ELEMENT standard variant Removable display/configuration module (with instruction sheet) Buffer solution, 300 ml, conductivity standard: 15 µS/cm, ±5 % accuracy Buffer solution, 300 ml, conductivity standard: 15 µS/cm, ±1 % accuracy Buffer solution, 300 ml, conductivity standard: 1413 µS/cm, ±1 % accuracy Buffer Solution, 300 ml, conductivity standard: 1413 µS/cm, ±1 % accuracy Buffer Solution, 300 ml, conductivity standard: 1413 µS/cm, ±1 % accuracy Buffer Solution, 300 ml, conductivity standard: 1413 µS/cm, ±1 % accuracy Buffer Solution, 300 ml, conductivity standard: 1413 µS/cm, ±1 % accuracy Buffer Solution, 300 ml, conductivity standard: 1413 µS/cm, ±1 % accuracy Buffer Solution, 300 ml, conductivity standard: 1413 µS/cm, ±1 % accuracy Buffer Solution, 300 ml, conductivity standard: 1413 µS/cm, ±1 % accuracy Buffer Solution, 300 ml, conductivity standard: 1413 µS/cm, ±1 % accuracy Buffer Solution, 300 ml, conductivity standard: 1413 µS/cm, ±1 % accuracy Buffer Solution, 300 ml, conductivity standard: 1413 µS/cm, ±1 % accuracy Buffer Solution, 300 ml, conductivity standard: 1413 µS/cm, ±1 % accuracy Buffer Solution, 300 ml, conductivity standard: 1413 µS/cm, ±1 % accuracy Buffer Solution, 300 ml, conductivity standard: 1413 µS/cm, ±1 % accuracy Buffer Solution, 300 ml, conductivity standard: 1413 µS/cm, ±1 % accuracy Buffer Solution, 300 ml, conductivity standard: 1413 µS/cm, ±2 % accuracy Buffer Solution, 300 ml, conductivity standard: 1413 µS/cm, ±1 % accuracy Buffer Solution, 300 ml, conductivity standard: 1413 µS/cm, ±1 % accuracy Buffer Solution, 300 ml, conductivity standard: 1413 µS/cm, ±1 % accuracy Buffer Solution, 300 ml, conductivity standard: 1413 µS/cm, ±1 % accuracy Buffer Solution, 300 ml, conductivity standard: 1413 µS/cm, ±1 % accuracy Buffer Solution, 300 ml, conductivity standard: 1413 µS/cm, ±1 % accuracy Buffer Solution, 300 ml, conductivity standard: 1413 µS/cm, ±1 % accuracy Buffer Solution, 300 ml, conductivity sta
For ELEMENT standard variant Opaque cover with seal (1 screw cover with EPDM seal +1 quarter turn closing cover with silicone seal) Transparent cover with seal (1 screw cover with EPDM seal +1 quarter turn closing cover with silicone seal) Electrical connection For all variants W12 female connector with plastic threaded clamping ring, 5-pin, straight, to be wired M12 female connector with moulded cable (shielded), 5-pin, straight, cable length: 2 m 438680 ₱ For ELEMENT standard variant M12 male connector with plastic threaded clamping ring, 5-pin, straight, to be wired M12 male connector with moulded cable (shielded), 5-pin, straight, cable length: 2 m 559177 ₱ Configuration accessory For ELEMENT standard variant Removable display/configuration module (with instruction sheet) For all variants Buffer solution, 300 ml, conductivity standard: 5 µS/cm, ±1% accuracy Buffer solution, 300 ml, conductivity standard: 15 µS/cm, ±5% accuracy Buffer solution, 300 ml, conductivity standard: 100 µS/cm, ±5% accuracy Buffer solution, 300 ml, conductivity standard: 100 µS/cm, ±5% accuracy Buffer solution, 300 ml, conductivity standard: 100 µS/cm, ±2% accuracy Buffer solution, 300 ml, conductivity standard: 100 µS/cm, ±2% accuracy Buffer solution, 300 ml, conductivity standard: 100 µS/cm, ±2% accuracy Buffer solution, 300 ml, conductivity standard: 100 µS/cm, ±2% accuracy Buffer solution, 300 ml, conductivity standard: 100 µS/cm, ±2% accuracy Buffer solution, 300 ml, conductivity standard: 100 µS/cm, ±2% accuracy Buffer solution, 300 ml, conductivity standard: 100 µS/cm, ±2% accuracy Buffer solution, 300 ml, conductivity standard: 100 µS/cm, ±2% accuracy Buffer solution, 300 ml, conductivity standard: 100 µS/cm, ±2% accuracy Buffer solution, 300 ml, conductivity standard: 100 µS/cm, ±2% accuracy Buffer solution, 300 ml, conductivity standard: 100 µS/cm, ±2% accuracy Buffer solution, 300 ml, conductivity standard: 100 µS/cm, ±2% accuracy Buffer solution, 300 ml, conductivity standard: 100 µS/cm, ±2% accuracy Buffer solution,
Opaque cover with seal (1 screw cover with EPDM seal +1 quarter turn closing cover with silicone seal) Transparent cover with seal (1 screw cover with EPDM seal +1 quarter turn closing cover with silicone seal) Electrical connection For all variants M12 female connector with plastic threaded clamping ring, 5-pin, straight, to be wired M12 female connector with moulded cable (shielded), 5-pin, straight, cable length: 2 m M12 female connector with plastic threaded clamping ring, 5-pin, straight, cable length: 2 m M12 male connector with plastic threaded clamping ring, 5-pin, straight, to be wired M12 male connector with moulded cable (shielded), 5-pin, straight, cable length: 2 m Senyal connector with moulded cable (shielded), 5-pin, straight, cable length: 2 m Configuration accessory For ELEMENT standard variant Removable display/configuration module (with instruction sheet) For all variants Buffer solution, 300 ml, conductivity standard: 5 µS/cm, ±1% accuracy Buffer solution, 300 ml, conductivity standard: 15 µS/cm, ±5% accuracy Buffer solution, 300 ml, conductivity standard: 100 µS/cm, ±3% accuracy Buffer solution, 300 ml, conductivity standard: 706 µS/cm, ±2% accuracy Buffer solution, 300 ml, conductivity standard: 1413 µS/cm, ±1% accuracy System Connect Type ME43 Gateway/Interface Industrial Ethernet gateway (PROFINET IO, EtherNet/IP, Modbus TCP, EtherCAT®) PROFIBUS gateway (PROFIBUS DPV1) 307393 \(\frac{\text{Type ME45 I bisplay}}{\text{EDIP Accessories}}\) USB-būS interface set 1 (Type 8923) Further information can be found in chapter "9. Product accessories" on page 18.
Transparent cover with seal (1 screw cover with EPDM seal +1 quarter turn closing cover with silicone seal) Electrical connection For all variants M12 female connector with plastic threaded clamping ring, 5-pin, straight, to be wired M12 female connector with moulded cable (shielded), 5-pin, straight, cable length: 2 m 438680 For ELEMENT standard variant M12 male connector with plastic threaded clamping ring, 5-pin, straight, cable length: 2 m 550946 M12 male connector with moulded cable (shielded), 5-pin, straight, cable length: 2 m 559177 Configuration accessory For ELEMENT standard variant Removable display/configuration module (with instruction sheet) 559168 For all variants Buffer solution, 300 ml, conductivity standard: 5 µS/cm, ±1% accuracy 8uffer solution, 300 ml, conductivity standard: 15 µS/cm, ±5% accuracy 9uffer solution, 300 ml, conductivity standard: 10 µS/cm, ±3% accuracy 9uffer solution, 300 ml, conductivity standard: 100 µS/cm, ±3% accuracy 9uffer solution, 300 ml, conductivity standard: 706 µS/cm, ±2% accuracy 9uffer solution, 300 ml, conductivity standard: 1413 µS/cm, ±1% accuracy 9uffer solution, 300 ml, conductivity standard: 706 µS/cm, ±2% accuracy 9uffer solution, 300 ml, conductivity standard: 706 µS/cm, ±2% accuracy 9uffer solution, 300 ml, conductivity standard: 706 µS/cm, ±2% accuracy 9uffer solution, 300 ml, conductivity standard: 706 µS/cm, ±2% accuracy 9uffer solution, 300 ml, conductivity standard: 706 µS/cm, ±2% accuracy 9uffer solution, 300 ml, conductivity standard: 706 µS/cm, ±2% accuracy 9uffer solution, 300 ml, conductivity standard: 706 µS/cm, ±2% accuracy 9uffer solution, 300 ml, conductivity standard: 706 µS/cm, ±2% accuracy 9uffer solution, 300 ml, conductivity standard: 706 µS/cm, ±2% accuracy 9uffer solution, 300 ml, conductivity standard: 706 µS/cm, ±2% accuracy 9uffer solution, 300 ml, conductivity standard: 706 µS/cm, ±2% accuracy 9uffer solution, 300 ml, conductivity standard: 706 µS/cm, ±2% accuracy 9uffer solution, 300 ml, c
Electrical connection For all variants M12 female connector with plastic threaded clamping ring, 5-pin, straight, to be wired M12 female connector with moulded cable (shielded), 5-pin, straight, cable length: 2 m 438680 ₱ For ELEMENT standard variant M12 male connector with plastic threaded clamping ring, 5-pin, straight, to be wired M12 male connector with moulded cable (shielded), 5-pin, straight, to be wired M12 male connector with moulded cable (shielded), 5-pin, straight, cable length: 2 m 559177 ₱ Configuration accessory For ELEMENT standard variant Removable display/configuration module (with instruction sheet) For all variants Buffer solution, 300 ml, conductivity standard: 5 μS/cm, ±1% accuracy Buffer solution, 300 ml, conductivity standard: 15 μS/cm, ±5% accuracy 440015 ₱ Buffer solution, 300 ml, conductivity standard: 100 μS/cm, ±3% accuracy 440017 ₱ Buffer solution, 300 ml, conductivity standard: 706 μS/cm, ±1% accuracy 440018 ₱ Buffer solution, 300 ml, conductivity standard: 706 μS/cm, ±1% accuracy 440019 ₱ System Connect Type ME43 Gateway/Interface Industrial Ethernet gateway (PROFIBUS DPV1) 70pe ME51 Display FieldConnect ME61 3.5" display (8.9 cm) 507303 ₱ FODFIBUS gateway (PROFIBUS DPV1) Type ME61 Display FieldConnect ME61 3.5" display (8.9 cm) 508-būS interface set 1 (Type 8923) Further information can be found in chapter "9. Product accessories" on page 18.
For all variants M12 female connector with plastic threaded clamping ring, 5-pin, straight, to be wired M12 female connector with moulded cable (shielded), 5-pin, straight, cable length: 2 m 438680 ▼ For ELEMENT standard variant M12 male connector with plastic threaded clamping ring, 5-pin, straight, to be wired M12 male connector with plastic threaded clamping ring, 5-pin, straight, to be wired M12 male connector with moulded cable (shielded), 5-pin, straight, cable length: 2 m 559177 ▼ Configuration accessory For ELEMENT standard variant Removable display/configuration module (with instruction sheet) For all variants Buffer solution, 300 ml, conductivity standard: 5 µS/cm, ±1% accuracy Buffer solution, 300 ml, conductivity standard: 15 µS/cm, ±5% accuracy 440016 ▼ Buffer solution, 300 ml, conductivity standard: 100 µS/cm, ±3% accuracy 440017 ▼ Buffer solution, 300 ml, conductivity standard: 100 µS/cm, ±2% accuracy 440018 ▼ Buffer solution, 300 ml, conductivity standard: 1413 µS/cm, ±1% accuracy 440019 ▼ System Connect Type ME43 Gateway/Interface Industrial Ethernet gateway (PROFINET IO, EtherNet/IP, Modbus TCP, EtherCAT®) 9ROFIBUS gateway (PROFIBUS DPV1) 307393 ▼ Type ME61 Display FieldConnect ME61 3.5" display (8.9 cm) 2088-büS interface set 1 (Type 8923) Further information can be found in chapter "9. Product accessories" on page 18.
M12 female connector with plastic threaded clamping ring, 5-pin, straight, to be wired M12 female connector with moulded cable (shielded), 5-pin, straight, cable length: 2 m 438680 ▼ For ELEMENT standard variant M12 male connector with plastic threaded clamping ring, 5-pin, straight, to be wired M12 male connector with moulded cable (shielded), 5-pin, straight, cable length: 2 m 559177 ▼ Configuration accessory For ELEMENT standard variant Removable display/configuration module (with instruction sheet) For all variants Buffer solution, 300 ml, conductivity standard: 5 μS/cm, ±1 % accuracy 8 uffer solution, 300 ml, conductivity standard: 15 μS/cm, ±5 % accuracy 9 uffer solution, 300 ml, conductivity standard: 100 μS/cm, ±2 % accuracy 9 uffer solution, 300 ml, conductivity standard: 1706 μS/cm, ±2 % accuracy 9 uffer solution, 300 ml, conductivity standard: 1413 μS/cm, ±1 % accuracy 9 uffer solution, 300 ml, conductivity standard: 1413 μS/cm, ±1 % accuracy 9 uffer solution, 300 ml, conductivity standard: 1413 μS/cm, ±1 % accuracy 9 uffer solution, 300 ml, conductivity standard: 1413 μS/cm, ±1 % accuracy 9 uffer solution, 300 ml, conductivity standard: 1413 μS/cm, ±1 % accuracy 9 uffer solution, 300 ml, conductivity standard: 1413 μS/cm, ±1 % accuracy 9 uffer solution, 300 ml, conductivity standard: 1413 μS/cm, ±1 % accuracy 9 uffer solution, 300 ml, conductivity standard: 1413 μS/cm, ±1 % accuracy 9 uffer solution, 300 ml, conductivity standard: 1413 μS/cm, ±1 % accuracy 9 uffer solution, 300 ml, conductivity standard: 1413 μS/cm, ±1 % accuracy 9 uffer solution, 300 ml, conductivity standard: 1413 μS/cm, ±1 % accuracy 9 uffer solution, 300 ml, conductivity standard: 1413 μS/cm, ±1 % accuracy 9 uffer solution, 300 ml, conductivity standard: 1706 μS/cm, ±2 % accuracy 9 uffer solution, 300 ml, conductivity standard: 1706 μS/cm, ±2 % accuracy 9 uffer solution, 300 ml, conductivity standard: 1706 μS/cm, ±2 % accuracy 9 uffer solution, 300 ml, conductivity standard: 1706 μS/cm, ±2 % accuracy 9 uffer solution, 300 ml,
M12 female connector with moulded cable (shielded), 5-pin, straight, cable length: 2 m For ELEMENT standard variant M12 male connector with plastic threaded clamping ring, 5-pin, straight, to be wired M12 male connector with moulded cable (shielded), 5-pin, straight, cable length: 2 m 559177 ™ Configuration accessory For ELEMENT standard variant Removable display/configuration module (with instruction sheet) For all variants Buffer solution, 300 ml, conductivity standard: 5 μS/cm, ±1 % accuracy Buffer solution, 300 ml, conductivity standard: 15 μS/cm, ±5 % accuracy Buffer solution, 300 ml, conductivity standard: 100 μS/cm, ±3 % accuracy Buffer solution, 300 ml, conductivity standard: 706 μS/cm, ±2 % accuracy Buffer solution, 300 ml, conductivity standard: 1413 μS/cm, ±1 % accuracy 3440017 ™ Buffer solution, 300 ml, conductivity standard: 706 μS/cm, ±1 % accuracy 440018 ™ Buffer solution, 300 ml, conductivity standard: 1413 μS/cm, ±1 % accuracy 440018 ™ Buffer solution, 300 ml, conductivity standard: 1413 μS/cm, ±1 % accuracy 440018 ™ Buffer solution, 300 ml, conductivity standard: 1413 μS/cm, ±1 % accuracy 440018 ™ Buffer solution, 300 ml, conductivity standard: 1413 μS/cm, ±1 % accuracy 37309 ™ Buffer Solution, 300 ml, conductivity standard: 1413 μS/cm, ±1 % accuracy 3073990 ™ Buffer Solution, 300 ml, conductivity standard: 1413 μS/cm, ±1 % accuracy 3073990 ™ 307399
For ELEMENT standard variant M12 male connector with plastic threaded clamping ring, 5-pin, straight, to be wired M12 male connector with plastic threaded clamping ring, 5-pin, straight, to be wired M12 male connector with moulded cable (shielded), 5-pin, straight, cable length: 2 m Configuration accessory For ELEMENT standard variant Removable display/configuration module (with instruction sheet) For all variants Buffer solution, 300 ml, conductivity standard: 5 µS/cm, ±1% accuracy Buffer solution, 300 ml, conductivity standard: 15 µS/cm, ±5% accuracy Buffer solution, 300 ml, conductivity standard: 100 µS/cm, ±3% accuracy Buffer solution, 300 ml, conductivity standard: 706 µS/cm, ±2% accuracy Buffer solution, 300 ml, conductivity standard: 1413 µS/cm, ±1% accuracy System Connect Type ME43 Gateway/Interface Industrial Ethernet gateway (PROFINET IO, EtherNet/IP, Modbus TCP, EtherCAT®) 307390 ₱ PROFIBUS gateway (PROFIBUS DPV1) 307393 ₱ Type ME61 Display FieldConnect ME61 3.5" display (8.9 cm) BUSB-būS interface set 1 (Type 8923) Further information can be found in chapter "9. Product accessories" on page 18. USB-būS interface set 2 (Type 8923) Further information can be found in chapter "9. Product accessories" on page 18.
M12 male connector with plastic threaded clamping ring, 5-pin, straight, to be wired M12 male connector with moulded cable (shielded), 5-pin, straight, cable length: 2 m Configuration accessory For ELEMENT standard variant Removable display/configuration module (with instruction sheet) For all variants Buffer solution, 300 ml, conductivity standard: 5 µS/cm, ±1 % accuracy Buffer solution, 300 ml, conductivity standard: 15 µS/cm, ±5 % accuracy Buffer solution, 300 ml, conductivity standard: 100 µS/cm, ±3 % accuracy Buffer solution, 300 ml, conductivity standard: 706 µS/cm, ±2 % accuracy Buffer solution, 300 ml, conductivity standard: 716 µS/cm, ±1 % accuracy Buffer solution, 300 ml, conductivity standard: 716 µS/cm, ±1 % accuracy Buffer solution, 300 ml, conductivity standard: 716 µS/cm, ±1 % accuracy Buffer solution, 300 ml, conductivity standard: 716 µS/cm, ±1 % accuracy Buffer solution, 300 ml, conductivity standard: 716 µS/cm, ±1 % accuracy Buffer solution, 300 ml, conductivity standard: 716 µS/cm, ±1 % accuracy Buffer Solution, 300 ml, conductivity standard: 716 µS/cm, ±1 % accuracy Buffer Solution, 300 ml, conductivity standard: 716 µS/cm, ±1 % accuracy Buffer Solution, 300 ml, conductivity standard: 716 µS/cm, ±1 % accuracy Buffer Solution, 300 ml, conductivity standard: 716 µS/cm, ±1 % accuracy Buffer Solution, 300 ml, conductivity standard: 716 µS/cm, ±2 % accuracy Buffer Solution, 300 ml, conductivity standard: 716 µS/cm, ±2 % accuracy Buffer Solution, 300 ml, conductivity standard: 716 µS/cm, ±2 % accuracy Buffer Solution, 300 ml, conductivity standard: 716 µS/cm, ±2 % accuracy Buffer Solution, 300 ml, conductivity standard: 716 µS/cm, ±2 % accuracy Buffer Solution, 300 ml, conductivity standard: 716 µS/cm, ±2 % accuracy Buffer Solution, 300 ml, conductivity standard: 716 µS/cm, ±2 % accuracy Buffer Solution, 300 ml, conductivity standard: 716 µS/cm, ±2 % accuracy Buffer Solution, 300 ml, conductivity standard: 716 µS/cm, ±2 % accuracy Buffer Solution, 300 ml, conductivity
M12 male connector with moulded cable (shielded), 5-pin, straight, cable length: 2 m Configuration accessory For ELEMENT standard variant Removable display/configuration module (with instruction sheet) For all variants Buffer solution, 300 ml, conductivity standard: 5 μS/cm, ±1 % accuracy Buffer solution, 300 ml, conductivity standard: 15 μS/cm, ±5 % accuracy Buffer solution, 300 ml, conductivity standard: 100 μS/cm, ±3 % accuracy Buffer solution, 300 ml, conductivity standard: 100 μS/cm, ±2 % accuracy Buffer solution, 300 ml, conductivity standard: 100 μS/cm, ±1 % accuracy Buffer solution, 300 ml, conductivity standard: 1413 μS/cm, ±1 % accuracy Buffer solution, 300 ml, conductivity standard: 1413 μS/cm, ±1 % accuracy System Connect Type ME43 Gateway/Interface Industrial Ethernet gateway (PROFINET IO, EtherNet/IP, Modbus TCP, EtherCAT®) PROFIBUS gateway (PROFIBUS DPV1) 307393 ₹ Type ME61 Display FieldConnect ME61 3.5" display (8.9 cm) Buffer solution, 300 ml, conductivity standard: 1417 μS/cm, ±1 % accuracy System Connect ME61 3.5" display (8.9 cm) System Conne
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For ELEMENT standard variant Removable display/configuration module (with instruction sheet) For all variants Buffer solution, 300 ml, conductivity standard: 5 μS/cm, ±1% accuracy Buffer solution, 300 ml, conductivity standard: 15 μS/cm, ±5% accuracy Buffer solution, 300 ml, conductivity standard: 100 μS/cm, ±3% accuracy Buffer solution, 300 ml, conductivity standard: 706 μS/cm, ±2% accuracy Buffer solution, 300 ml, conductivity standard: 741 μS/cm, ±2% accuracy Buffer solution, 300 ml, conductivity standard: 741 μS/cm, ±2% accuracy System Connect Type ME43 Gateway/Interface Industrial Ethernet gateway (PROFINET IO, EtherNet/IP, Modbus TCP, EtherCAT®) PROFIBUS gateway (PROFIBUS DPV1) 307393 Type ME61 Display FieldConnect ME61 3.5" display (8.9 cm) EDIP Accessories būS Stick Set USB-būS interface set 1 (Type 8923) Further information can be found in chapter "9. Product accessories" on page 18. 772426 Type Spoul interface set 2 (Type 8923) Further information can be found in chapter "9. Product accessories" on page 18.
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Buffer solution, 300 ml, conductivity standard: 5 μS/cm, ±1% accuracy Buffer solution, 300 ml, conductivity standard: 15 μS/cm, ±5% accuracy Buffer solution, 300 ml, conductivity standard: 100 μS/cm, ±3% accuracy Buffer solution, 300 ml, conductivity standard: 100 μS/cm, ±3% accuracy Buffer solution, 300 ml, conductivity standard: 706 μS/cm, ±2% accuracy Buffer solution, 300 ml, conductivity standard: 1413 μS/cm, ±1% accuracy System Connect Type ME43 Gateway/Interface Industrial Ethernet gateway (PROFINET IO, EtherNet/IP, Modbus TCP, EtherCAT®) PROFIBUS gateway (PROFIBUS DPV1) Type ME61 Display FieldConnect ME61 3.5" display (8.9 cm) EDIP Accessories büS Stick Set USB-büS interface set 1 (Type 8923) Further information can be found in chapter "9. Product accessories" on page 18.
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Industrial Ethernet gateway (PROFINET IO, EtherNet/IP, Modbus TCP, EtherCAT®) PROFIBUS gateway (PROFIBUS DPV1) 307393 Type ME61 Display FieldConnect ME61 3.5" display (8.9 cm) EDIP Accessories büS Stick Set USB-büS interface set 1 (Type 8923) Further information can be found in chapter "9. Product accessories" on page 18. 772426 USB-büS interface set 2 (Type 8923) Further information can be found in chapter "9. Product accessories" on page 18.
PROFIBUS gateway (PROFIBUS DPV1) Type ME61 Display FieldConnect ME61 3.5" display (8.9 cm) EDIP Accessories büS Stick Set USB-büS interface set 1 (Type 8923) Further information can be found in chapter "9. Product accessories" on page 18. 772426 USB-büS interface set 2 (Type 8923) Further information can be found in chapter "9. Product accessories" on page 18.
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Further information can be found in chapter "9. Product accessories" on page 18.
Connectors
büS M12 female connector, 5-pin, straight, A-coded 772416 ≒
büS M12 male connector, 5-pin, straight, A-coded 772417 ™
büS M12 female connector, 5-pin, angled, A-coded 772418 ≒
büS M12 male connector, 5-pin, angled, A-coded 772419 ≒
büS Y-distributor with power interrupt (M12 female connector, 5-pin to M12 male and female connectors, 5-pin) 772421 😾
büS adaptor (M12 male connector, 5-pin, A-coded to M12 male connector, 5-pin, A-coded) 772867 😾
büS terminating resistor 120 ohms, M12 male connector, 5-pin 772424 ≒
büS terminating resistor 120 ohms, M12 female connector, 5-pin 772425 🖼

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Description					
Connectors with cable					
daptor cable with M12 female connector, 8-pin to M12 male connector, 5-pin 0.5 m					
M12 female connector, 5-pin, angled, moulded on büS cable, with open leads 0.7 m					
M12 female connector, 5-pin, straight, moulded on büS cable, with open leads 1 m 3 m		772409 📜			
		772410 📜			
	5 m	772411 📜			
	10 m	772412 📜			
M12 male connector, 5-pin straight and micro USB connector, moulded on büS cable	0.3 m	773254 📜			
M12 female connector, 8-pin, straight, moulded on büS cable, with open leads 2 m					
Extensions					
M12 female and male connectors, 5-pin, straight, moulded on büS cable, shielded	0.1 m	772492 📜			
	0.2 m	772402 📜			
	0.5 m	772403 📜			
	1 m	772404 🛱			
	3 m	772405 🛱			
	5 m	772406 🛱			
	10 m	772407 🛱			
	20 m	772408 📜			
Power supply unit for standard rail Type 1573					
100240 V AC / 24 V DC, 1 A (Class 2 according to NEC)					
100240 V AC / 24 V DC, 2 A (Class 2 according to NEC)					
100240 V AC / 24 V DC, 3.8 A (Class 2 according to NEC)					
100240 V AC / 24 V DC, 10 A					

^{1.)} Important: only use this O-ring to ensure tightness between the measuring device with G 3/4" external thread and the Type S022 Insertion adapter.