



Conductivity meter

- Perfect for clean water and slightly concentrated liquids
- Integral device for direct connection to PLC
- Simulation of process values for diagnostics
- Three cell constants to cover a wide application range e.g. reverse osmosis

Type 8222 can be combined with...



eCONTROL Universal controller



Type 8619 multiCELL Transmitter/Controller



Type 8693 Process controller

Environment

Ambient temperature

Relative humidity



Type 8802 ELEMENT Control valve system



Type S022
Insertion Adapter/
Fitting for ELEMENT
analytical devices

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

The conductivity meter consists of a sensor, plugged-in and pined to the transmitter (with removable display). The sensor comprises a cell with two electrodes and a Pt1000 temperature probe. The sensor itself is available with three different cell constants C, these with C =0.01 or 0.1 are fitted with stainless steel electrodes and those with C=1.0 are fitted with graphite electrodes.

The conductivity meter can operate independent of the display but it will be required for programming the device and also for visualizing continuously the measured and processed data.

The 8222 device is available:

- with three fully programmable outputs: two transistor and one 2-wire 4...20 mA current outputs
- with four fully programmable outputs: two transistor and two 3-wire 4...20 mA current outputs.

The transmitter converts the measured signal, displays different values in different physical units (if display mounted) and computes the output signals, which are provided via one or two M12 fixed connectors.

Technical data (Pipe + conductivity meter)				
Pipe diameter	DN25DN110 (DN <25 with reduction)			
Conductivity measurement Measuring range Resolution Measurement deviation	0.05 µS/cm10 mS/cm 1 nS/cm ±3 % of measured value			
Temperature measurement Measuring range Internal resolution Measurement deviation Minimal temperature range	-20+100 °C (-4+212 °F) 0.1 °C (0.18 °F) ±1 °C (1.8 °F) 10 °C (i.e. +10+20 °C (+50+68 °F) corresponding to 420 mA)			
Temperature compensation	none or according to a predefined graph (NaCl or ultra pure water) or according to a graph defined especially for your process			
Fluid temperature with G 1½ PVC connection nut with G 1½ PVDF connection nut	0+50 °C (+32+122 °F) -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 max	PN16 (232 PSI) (see pressure / temperature chart)			

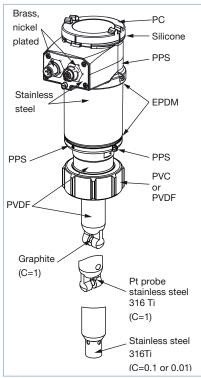
-10...+60 °C (+14...+140 °F) (operating and storage)

≤85%, without condensation

General data					
Compatibility	Any pipe which are fitted out with Bürkert adaptor				
Compatibility	S022 (see separate data sheet)				
Materials	See exploded view, opposite				
Housing / cover	Stainless steel 1.4404, PPS / PC				
Seals / Screws	EPDM, silicone / Stainless steel				
Fixed connector mounting plate	Stainless steel 1.4404 (316L)				
Fixed connector	Brass nickel plated				
Display / navigation key	PC / PBT				
Nut	PVC or PVDF				
Wetted part materials					
Conductivity sensor	PVDF, stainless steel 1.4571 (316Ti)				
Electrode	Stainless steel 1.4571 (316Ti) for cell constant C=0.01				
_	or C=0.1 or graphite for cell constant C=1.0				
Temperature sensor	Pt1000 (316Ti) integrated in the sensor				
Display (accessories)	Grey dot matrix 128 × 64 with backlighting				
Electrical connections					
3 outputs meter (2-wire)	1 × 5 pin M12 male fixed connector,				
4 outputs meter (3-wire)	1×5 pin M12 male +1×5 pin M12 female fixed con-				
	nectors				
Connection cable	Shielded cable				
Electrical data	1				
Power supply	14 OC V DC filtered and considered				
3 outputs meter (2-wire)	1436 V DC, filtered and regulated 1236 V DC, filtered and regulated				
4 outputs meter (3-wire)					
Characteristics of the power	Limited power source (according to § 9.4 of the UL61010-1				
source (not provided) of UL recog- nized devices	standard) or low power source (according to UL60950-1 stand-				
nized devices	ard) or Class 2 type power source (according to the UL1310/ UL1585 standards)				
Current consumption with	OL 1363 Standards)				
Current consumption with sensor	≤1 A (with the 2 transistors loads)				
3 outputs meter (2-wire)	≤ 25 mA (at 14 V DC without transistors load, with current loop)				
4 outputs meter (3-wire)	≤5 mA (at 12 V DC without transistors load, without current loop)				
• , ,	Protected				
Reversed polarity of DC					
Voltage peak	Protected				
Short circuit	Protected for transistor outputs				
Output					
Output	configurable as sourcing or sinking (see attack to the				
Transistor	configurable as sourcing or sinking (respectively both as				
•	PNP or NPN), open collector max. 700 mA, 0.5 A max.				
•	PNP or NPN), open collector max. 700 mA, 0.5 A max. per transistor if the 2 transistor outputs are wired				
•	PNP or NPN), open collector max. 700 mA, 0.5 A max. per transistor if the 2 transistor outputs are wired output NPN: 0.236 V DC				
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•	PNP or NPN), open collector max. 700 mA, 0.5 A max. per transistor if the 2 transistor outputs are wired output NPN: 0.236 V DC output PNP: V+ power supply				
Transistor	PNP or NPN), open collector max. 700 mA, 0.5 A max. per transistor if the 2 transistor outputs are wired output NPN: 0.236 V DC				
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Transistor Current 3 outputs meter (2-wire)	PNP or NPN), open collector max. 700 mA, 0.5 A max. per transistor if the 2 transistor outputs are wired output NPN: 0.236 V DC output PNP: V+ power supply $420 \text{ mA programmable as sourcing or sinking,} \\ \text{max. loop impedance: } 1100 \ \Omega \text{ at } 36 \text{ V DC;} \\ 610 \ \Omega \text{ at } 24 \text{ V DC;} 180 \ \Omega \text{ at } 14 \text{ V DC} \\ \text{Configurable in the same mode as transistor: sourcing or sinking,} \\$				
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Transistor Current 3 outputs meter (2-wire) 4 outputs meter (3-wire)	PNP or NPN), open collector max. 700 mA, 0.5 A max. per transistor if the 2 transistor outputs are wired output NPN: 0.236 V DC output PNP: V+ power supply				
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Materials view





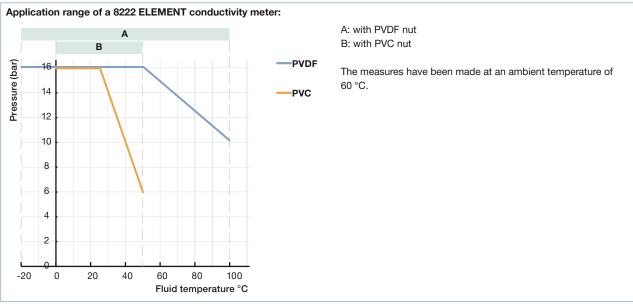
If the device is mounted in a humid environment or outside, then the maximum voltage allowed is **35 V DC** instead of 36 V DC.

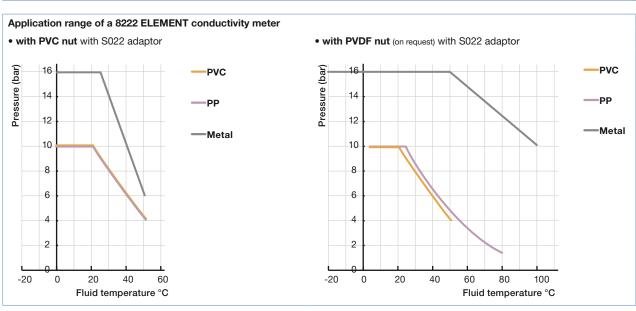
* For the 2014/68/EU pressure directive, the device can only be used under the following conditions (depends on max. pressure, pipe diameter and fluid).

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

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Pressure/temperature chart



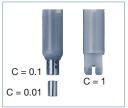




Principle of operation

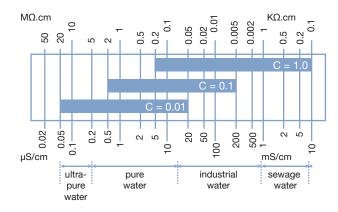
Conductivity is defined as the ability of a solution to conduct electrical current. The load carriers are ions (E.G. dissolved salt or acids). In order to measure conductivity 2 electrodes are used which are set at a fixed distance apart and with a known specified surface. An AC voltage source is connected to the electrodes. The measured current is a direct function of the conductivity of the solution.

The conductivity meter is a two-wire device (single meter version) or a three-wire device (dual meter version) and requires a power supply of 14 V DC (single meter version) or 12 V DC (dual meter version) up to 36 V DC.



The conductivity meter can be fitted with 3 different sensors with cell constants 0.01, 0.1 or 1.0.

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



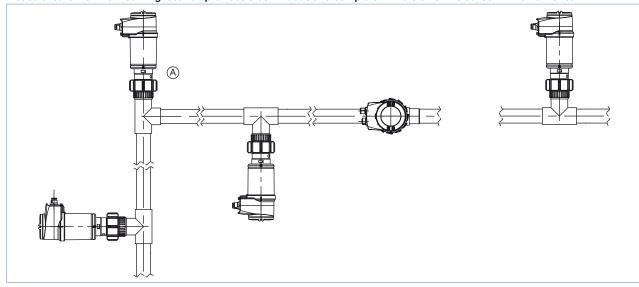
Installation

The 8222 conductivity meter can be installed into any adaptor with G 1½ external threaded sensor connection by just fixing the main union nut.

Select and install the required adaptor onto the pipe according to specific requirements of the sensor and material (temperature and pressure). For a mounting on a tank or a direct mounting on a pipe (DN100 or DN110), an adaptor with a G 1½ external threaded sensor connection must be used. Install cautiously the device on the fitting. It can be installed in any position (prefer "A" mounting to install a 8222 with sensor C=0.11 or C=0.01).

In order to get reliable measurement air bubbles must be avoided.

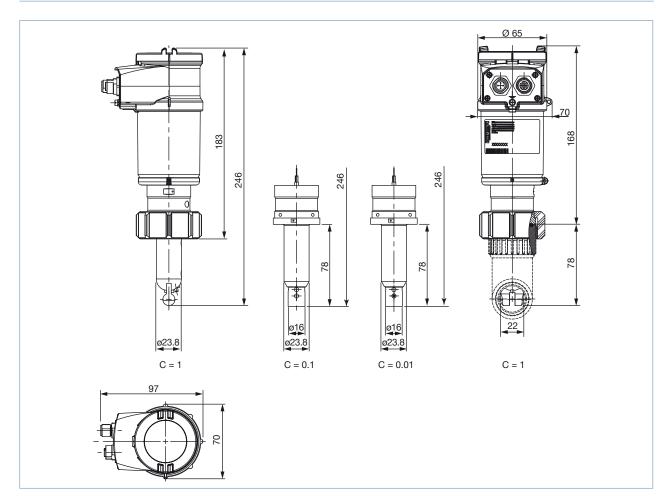
Please ensure that the mounting location provides a continuous and complete immersion of the sensor in the flow stream.



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

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Dimensions [mm] of conductivity meter Type 8222





Ordering information for compact conductivity meter, Type 8222

A complete compact ELEMENT conductivity meter, Type 8222, consists of a compact ELEMENT conductivity meter, Type 8222, a removable display/configuration module and a Bürkert S022 Insertion adaptor with a G 1½ external threaded sensor connection.

The following information is necessary for the selection of a complete device:

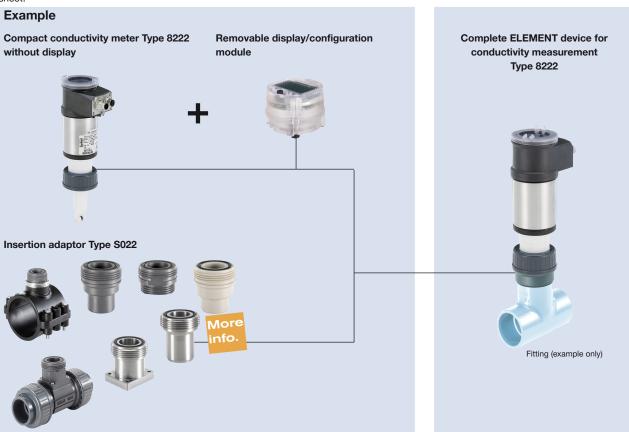
- •Article no. of the desired 8222 ELEMENT conductivity meter (see ordering chart on p. 7)
- Article no. of the a removable display/configuration module (see accessories ordering chart on p. 8)
- Article no. of the selected S022 Insertion adaptor with G 11/2 external threaded sensor connection (see separate data sheet)
- \rightarrow You have to order two or three components.



Attention!

When you order devices without display, please take care that you also order at least one display module for the operation. **Order no.** of the removable display/configuration module, see ordering chart on p. 8

When you click on the orange box "More info." below, you will come to our website for the resp. product where you can download the data-sheet.





Ordering chart for compact conductivity meter Type 8222

Specifications	Voltage supply	Output	Sensor version	Nut material	Electrical connection	UL certification	Article no.
Compact conductivity	· · · · · · · · · · · · · · · · · · ·	·	No	559618 🚎			
meter without display		1×420 mA			male fixed connector	UL-Recognized	562394 📜
				PVDF	5 pin M12 male fixed connector	No	559620 📜
						□ RN : UL-Recognized	562396 ≒
			C=0.1	PVC	5 pin M12	No	559614 📜
					male fixed connector	UL-Recognized	559624 📜
				PVDF	5 pin M12 male fixed connector	No	559616 📜
						UL-Recognized	559626 📜
			C=1.0	PVC	5 pin M12 male fixed connector	No	559610 📜
						□RN is UL-Recognized	559638 📜
				PVDF	5 pin M12 male fixed connector	No	559612 🚎
						⊕ RN is UL-Recognized	559622 📜
	1236 V DC	2xtransistors+	C=0.01	PVC	5 pin M12 male and 5 pin	No	559619 📜
	2×4.	2×420 mA	2×420 mA		M12 female fixed connectors	□ FN : UL-Recognized	562395 ≒
				PVDF	5 pin M12 male and 5 pin M12 female fixed connectors	No	559621 📜
						UL-Recognized	562397 🚎
			C=0.1	PVC	5 pin M12 male and 5 pin M12 female fixed connectors	No	559615 🚎
PVDF 5 pir						UL-Recognized	559625 ∖≕
	5 pin M12 male and 5 pin	No	559617 🚎				
					M12 female fixed connectors	□ FN : UL-Recognized	559627 📜
			C=1.0	PVC	5 pin M12 male and 5 pin	No	559611 📜
					M12 female fixed connectors	UL-Recognized	559639 📜
				PVDF	5 pin M12 male and 5 pin	No	559613 📜
				M12 female fixed connectors	□ RN : UL-Recognized	559623 ≒	

Note: Order separately (see accessories) - display/configuration module - M12 female cable plug

- Further versions on request

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

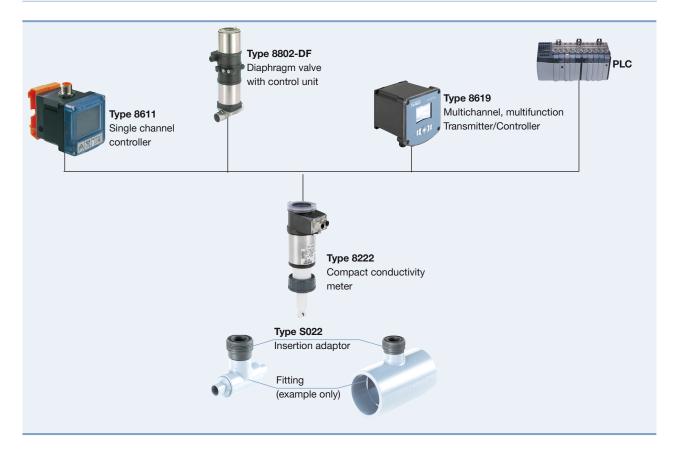
Certification and calibration.Calibration certificates



Ordering chart for accessories (to be ordered separately)

Description		Article no.
Removable display/	configuration module (with instruction sheet)	559168 📜
Blind cover with sea		560948 📜
Transparent cover w	ith seal	561843 📜
Calibration solution,	300 ml, 5 μS	440015 📜
Calibration solution,	300 ml, 15 μS	440016 📜
Calibration solution,	300 ml, 100 μS	440017 📜
Calibration solution,	300 ml, 706 μS	440018 📜
Calibration solution,	300 ml, 1413 μS	440019 📜
	5 pin M12 female straight cable plug with plastic threaded locking ring, to be wired	917116 📜
	5 pin M12 male straight cable plug with plastic threaded locking ring, to be wired	560946 ∖≖
	5 pin M12 female straight cable plug moulded on cable (2 m, shielded)	438680 📜
	5 pin M12 male straight cable plug moulded on cable (2 m, shielded)	559177 🚎

Interconnection possibilities with other Bürkert devices



To find your nearest Bürkert facility, click on the orange box



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

Subject to alteration.
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