DATA SHEET

Type 8905
Field system

Online water analysis system

- Continuous analysis of drinking water and industrial process water
- Architecture based on the modular Bürkert cube and backplane technology
- Fieldbus connection for versatile industrial communication, data exchange via gateway
- Very low consumption of water sample
- Extremely low-maintenance and long service life thanks to Micro–Electro–Mechanical Systems (MEMS) technology

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

Can be combined with

Type 8906
Online water analysis system

Type MS01
pH Sensor Cube

Type MS02
Chlorine (Cl_2) or chlorine dioxide (ClO2) sensor cube

Type MS03
Conductivity sensor cube

Type MS04
Oxidation reduction potential (ORP) sensor cube

Type MS05
Turbidity sensor cube

Type MS06
Flow injection analysis (FIA) sensor cube for dissolved iron content

Type MS08
SAC 254 sensor

Type MS09
Nitrate sensor

Type description

The Type 8905 online water analysis system is a compact, modular platform designed to monitor all key water parameters within a single solution. It operates as a multi-channel measurement system for Bürkert sensor cubes, mounted on a standard rail for use as a field-based installation. This system enables measurement of the following water parameters: pH, active and free chlorine, chlorine dioxide, conductivity, redox potential (ORP), turbidity, temperature and dissolved iron.
Type 8905 provides high flexibility for unlimited configuration once installed into Type 8906 online water analysis systems. It can thus be installed inside control cabinets, mounted on backplates, or integrated into mobile units, and can be fully customised to meet specific customer requirements.
The system is designed for simplified installation and rapid commissioning while minimizing operational and maintenance efforts. Leveraging Bürkert's backplane architecture, individual sensor cubes can be removed without tools for maintenance, without interrupting the system's operation. This design ensures maximum measurement system availability and optimal user convenience.
Cleaning is carried out by a compact, self-contained unit equipped with pumps and solenoid valves. The unit cleans the sensor modules whenever necessary, depending on the quality of the water analysed. This unit is designed to clean the fluidic channels and the internal surfaces of the connected sensor cubes, using up to two cleaning liquids. This fully automated process significantly reduces manual maintenance and supports long-term measurement stability. Apart from replacing depleted cleaning containers, no additional maintenance is required.
The system can be operated with or without a display Type ME61 (7" touch Control Display or 3.5" View Display) or via the Bürkert Communicator software Type 8920. In addition to displaying and recording analytical parameters, the platform enables advanced functionalities such as implementing control and regulation algorithms (e.g. PID control, on/off control, timer functions) through the integrated f(x) software function and interacting with processes via analogue and digital inputs and outputs.
Contact our specialists to work with them on designing your Type 8905 online water analysis system.

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bürkert
FLUID CONTROL SYSTEMS

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1. About the device

The Type 8905 online water analysis system is a multi-channel measuring device designed for decentralised field installation, standard rail mounted according to EN 50022.
The system is built on a series of interconnected backplanes, which can accommodate various modules: measuring modules (sensor cubes), a cleaning module, as well as input and output modules. The latter are equipped with a male M12 connector on the left and a female M12 connector on the right, respectively, for büS communication).
The sensor cubes Type MS01, MS02, MS03, MS04 and MS05 each operate using a single fluidic backplane. In contrast, the Type MS06 sensor cube requires three backplanes: two for mounting and an additional one, positioned to the right of the module, left unoccupied to allow lever actuation. The cleaning module features its own integrated backplane.

The system can be configured in various ways, as shown in the following illustrations. These are only examples of the many possible configurations.

Sensor cubes Type MSxx	Control module + cleaning module	Control module + cleaning module + sensor cubes Type MSxx	Control module + cleaning module + sensor cubes Type MSxx and Type MS06

The system can be equipped with unoccupied backplanes, enabling straightforward future expansion or adaptation of its functionalities.

See **data sheets Type MS01 ▶**, **Type MS02 ▶**, **Type MS03 ▶**, **Type MS04 ▶**, **Type MS05 ▶**, **Type MS06 ▶** for more information.

2. General technical data

Product properties	
Material	
Further information on the materials can be found in chapter "4.2. Material specifications" on page 6.	
Non-wetted parts	
Backplane	• For sensor cubes Type MS01, Type MS02, Type MS03, Type MS04, Type MS05 and Type MS06 – housing made of PPE (polyphenylene ether), PPE + PS (polystyrene) with 20 % glass fibre – bayonet valve made of PA (polyamide 6/6T), AlMgSi1 (aluminium alloy) and EPDM (ethylene propylene diene monome) – blind cover for empty backplane: made of POM (polyoxymethylene), EPDM and FKM (fluoroelastomer) – screws made of stainless steel – gold-plated electrical connection • For input and output modules located on the left and right sides, respectively – housing made of PPE, PPE + PS with 20 % glass fibre, with insert made of brass and EPDM – screws made of stainless steel – gold-plated electrical connection – nickel-plated spring

Module	• Sensor cubes: see **data sheets** – **Type MS01** ▶ pH sensor cube – **Type MS02** ▶ chlorine (Cl_2) or chlorine dioxide (ClO_2) sensor cube – **Type MS03** ▶ conductivity sensor cube – **Type MS04** ▶ oxidation reduction potential (ORP) sensor cube – **Type MS05** ▶ turbidity sensor cube – **Type MS06** ▶ dissolved iron sensor cube by flow injection analysis (FIA) • Cleaning module: – housing made of PC (polycarbonate, anthracite, UV-stabilised, UL94 V0) – base block made of PPE + PS, 20 % glass fibre – cable gland made of TPE (thermoplastic elastomer, black) – Further information can be found in chapter "4.2. Material specifications" on page 6. – This module incorporates valves Type 0331 and Type 0127, see **data sheets Type 0331** ▶ and **Type 0127** ▶ for further information. • Input and output modules located on the left and right sides, respectively – housing made of PC – M12 connector made of zinc die-cast, nickel-plated, with NBR seal
Wetted parts	
Seal	• Water process: EPDM • Cleaning process: EPDM, FFKM
Fluid connection	Stainless steel
Fluidic channels	• Water process: stainless steel, PPE + PS with 20 % glass fibre • Cleaning process: PPE + PS with 20 % glass fibre, PP, stainless steel, PEEK, PPS
Dimensions	Further information can be found in chapter "5. Dimensions" on page 8.
Product accessory	
Further accessory	Further information can be found in chapter "10. Product accessories" on page 13 and "12.5. Ordering chart accessories" on page 16.
Electrical data	
Operating voltage ("SUPPLY")	24 V DC ± 10 % residual ripple, filtered and regulated Connection to main supply: permanent, through external SELV (Safety Extra Low Voltage) and LPS (Limited Power Source) power supply
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
Power consumption	• Sensor cubes: see the relevant data sheets for the types used. • Cleaning module: 14 VA • Complete system Type 8905: max. 96 VA (limitated by input and output modules)
Input/output signal	Control module of the cleaning system: 4 digital output (DO), with function f(x) as an option
Medium data	
Fluid	• Water without particles: drinking water, industrial water (a filter should be mounted before the analyzer and in case of optical measurement a bubble trap is required) • Chemicals: all Bürkert approved and authorised cleaning solutions
Fluid pH range	pH 4...pH 9 If a chlorine sensor cube is integrated into the system, the pH value is limited to pH 5...pH 9.
Fluid conductivity	> 100 µS/cm for electrochemical measurement (pH, ORP, chlorine, chlorine dioxide)
Temperature of the fluid sample	+ 3 °C...+ 40 °C (+ 37 °F...+ 104 °F)
Pressure of the fluid sample	PN 3, see data sheets of the sensor cubes and accessories; the lowest permissible maximum pressure must be applied.
Flow rate of the fluid sample	• Recommended flow rate: 9 l/h per installed sensor module. So with e.g. 3 sensor modules the flow rate is 9 + 9 + 9 = 27 l/h due to the parallel installation. • Min. flow rate: 6 l/h per installed sensor module
Product connections	
Sensor cube	• Up to 30 sensor modules can be connected to fluidic backplanes via Bürkert's system bus (büS). • Maximum büS length 100 m (without T-connections)
Electrical connection	Male and female M12 connectors
Data transfer	
Internal communication	Via büS (Bürkert system bus, CANopen-based) or CANopen

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Approvals and conformities	
Directives	
CE directive	Further information on the CE directive can be found in chapter "3.2. Standards" on page 5.
Environment and installation	
Installation	Wall-mounted on standard rail TS35
Ambient temperature	• Operation: 0 °C...+ 40 °C (- 4 °F...+ 104 °F) • Storage: - 20 °C...+ 70 °C (- 4 °F...+ 140 °F) (without sensor cube)
Relative air humidity	< 95 %, without condensation
Height above sea level	Max. 2000 m
Operating condition	Continuous
Equipment mobility	Fixed
Application area	Indoor or outdoor in a cabinet Protect the device against electromagnetic interference, ultraviolet rays and, when installed outdoors, against the effects of climatic conditions.
Degree of protection according to IEC/EN 60529	• IP20, as a standalone product • IP65, with the following conditions met: – sensor cubes and modules plugged into the fluidic backplanes or – blind cover mounted on the electrical interface of the unused backplane, – female and male M12 cable connectors mounted and tightened, respectively, to the connector of the input and output modules
Installation category	• Category II, according to UL/EN 61010-1, with an AC switched-mode power supply • Category I, according to UL/EN 61010-1, with a direct DC power supply
Pollution degree	Degree 2, according to UL/EN 61010-1

3. Approvals and conformities

3.1. Conformity

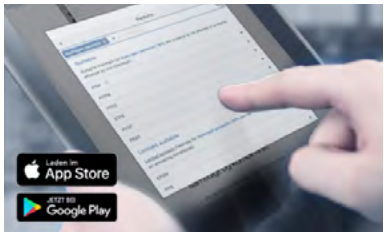
In accordance with the EU Declaration of Conformity, the product is compliant with the EU Directives.

3.2. 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.

4. Materials

4.1. 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

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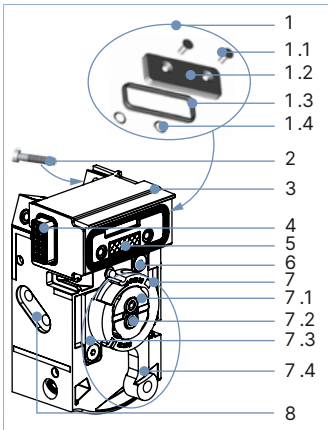
4.2. Material specifications

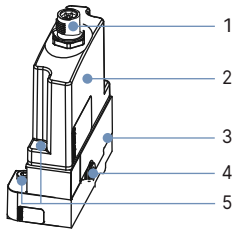
Fluidic backplane



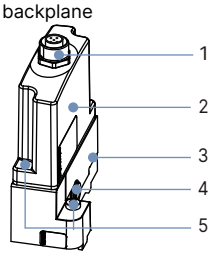
No.	Element	Material
1	Blind Cover	1. Screws made of stainless steel 2. Cover made of POM 3. Seal made of EPDM 4. O-ring made of NBR
2	Screws for backplane assembly	Stainless steel
3	Housing	PPE, PPE + PS with 20 % glass fibre
4	Electrical connection for backplane assembly	Gold-plated
5	Electrical connection for sensor-cube	Gold-plated
6	Screws for bayonet valve assembly	Stainless steel
7	Bayonet valve	1. Actuator mechanism made of PA 6/6T, AlMgSi1 2. Diaphragm made of EPDM 3. Bayonet valve holder made of stainless steel 4. Lever made of PA 6/6T
8	Fluid channel	Stainless steel and EPDM

Input and output module on backplane

Input module
on Input backplane



Output module
on output backplane



No.	Element	Material
1	M12 connector	Zinc die-cast, nickel-plated with seal made of NBR
2	Module housing	PC
3	Backplane housing	PPE + PS with 20 % glass fibre
4	Fluid channel	Stainless steel and EPDM
5	Screws	Stainless steel

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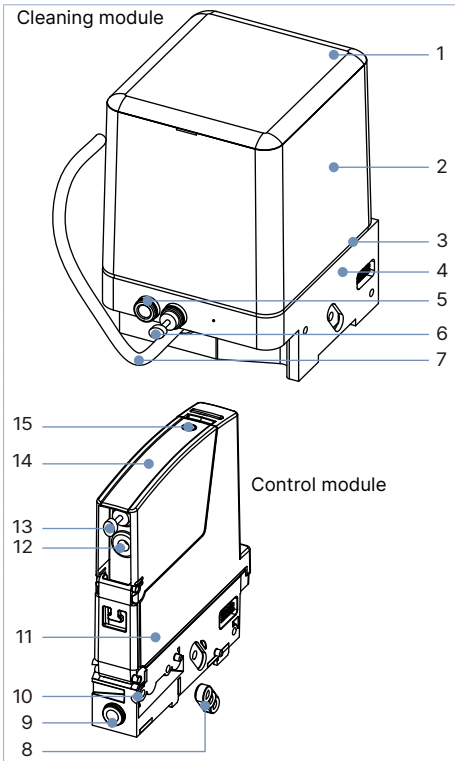
Cleaning system: cleaning module associated to the control module



No.	Element	Material
1	Housing cover	PC
2	Housing	PC
3	Seal	EPDM
4	Base block	PPE + PS, 20 % glass fibre
5	Fluidic port for cleaning solution	Stainless steel, EPDM
6	Sealing plug [1)]	Polymer
7	Electrical cable connected on the control module	PVC (Polyvinyl chloride)
8	Seal between backplanes	EPDM
9	Fluidic port for inlet sample water	Stainless steel, EPDM
10	Backplane	PPE + PS
11	Housing	PC
12	Fluidic port for the hose from cleaning module	TPE
13	Sealing plug [1)]	Polymer
14	Housing cover	PC
15	Screw	Stainless steel

1.) If a cleaning solution inlet is not used, it must be sealed with the supplied sealing plug.

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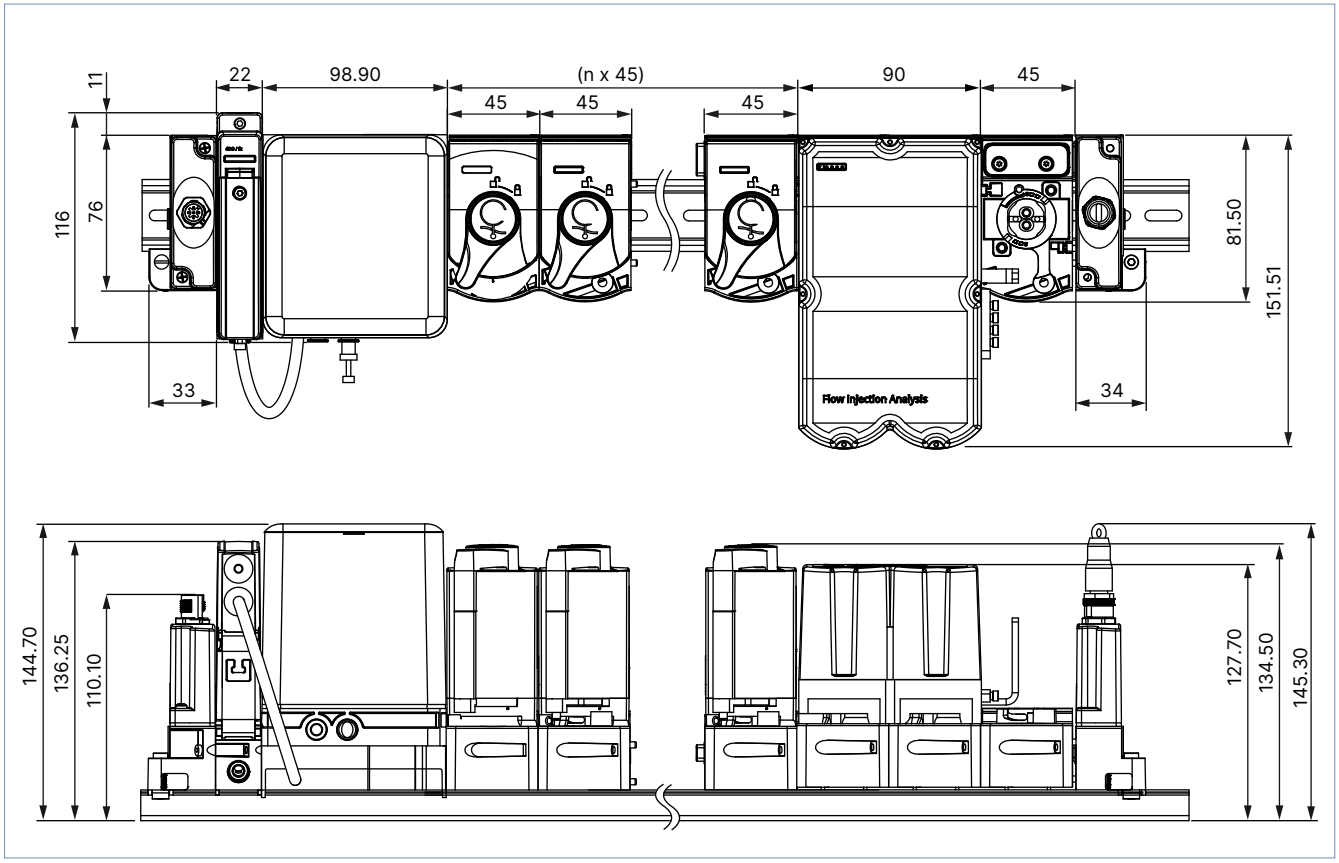
5. Dimensions

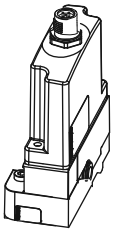
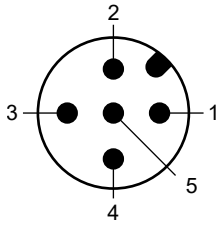
Note:

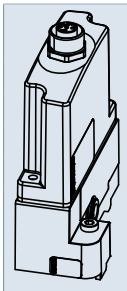
- Dimensions in mm, unless otherwise stated
- The following configuration comprises all the elements that can be assembled:
  - Input and output modules mounted on backplane
  - Cleaning module always connected to the control module
  - Sensor cubes Type MS01, Type MS02, Type MS03, Type MS04, Type MS05, Type MS06 mounted on fluidic backplane, and designed to measure up to 6 different variables. Further information can be found on chapters "9.1. Product assembly" on page 11 and "9.2. Example configuration" on page 12.
- n = number of sensor cubes or backplanes for sensor cube

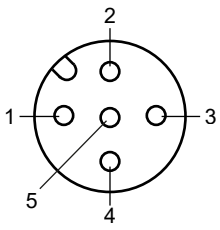


6. Product connections

6.1. Electrical connection

Connector type		Connection definition	
	**5-pin M12 male connector (A-coded), power input**	**Pin**	**Bürkert system bus (büS)**
		**1**	CAN_SHLD (shielding)
		2	CAN_V+ (+ 24 V DC)
		3	CAN_GND
		4	CAN_H (high)
		5	CAN_L (low)



5-pin M12 female connector (A-coded), power output	Pin	Bürkert system bus (büS)
	**1**	CAN_SHLD (shielding)
	2	CAN_V+ (+ 24 V DC)
	3	CAN_GND
	4	CAN_H (high)
	5	CAN_L (low)

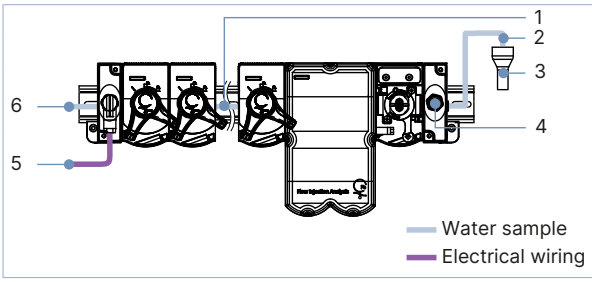
7. Product installation

7.1. Installation notes

The configurations presented are provided as examples and represent only a selection of the many possible configurations. However, all configurations require at least an input module and an output module.

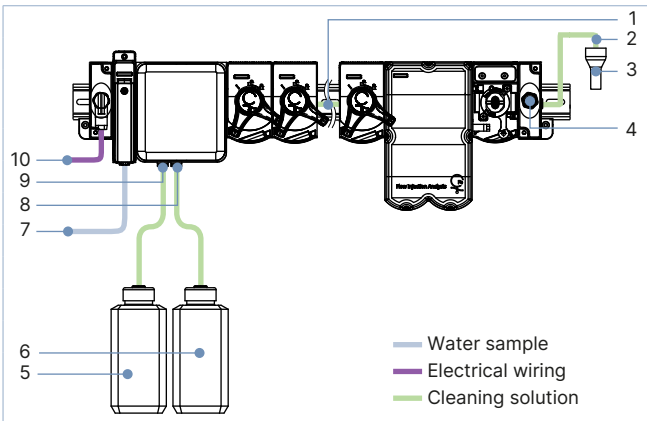
Configuration as a single-line architecture of the online water analysis system

- In this example, the system, comprising exclusively measuring sensor cubes and installed on a standard rail, operates in **measurement mode**. If it is not connected to any other system, it must be fitted with a terminating resistor, as its output is not connected to any other input.



No.	Description
1	Flow of the water sample through the sensor cubes
2	Outlet for sample water
3	Discharge funnel
4	120 Ω terminating resistor
5	Connection to power supply and büS
6	Inlet for sample water

- In this example, the system, comprising measuring sensor cubes and a cleaning system and installed on a standard rail, operates in **cleaning mode**. The cleaning system consists of the cleaning module, which is always associated to the control module. It can be integrated directly into the line of the online water analysis system.



No.	Description
1	Flow of the water sample through the sensor cubes
2	Outlet for the cleaning solution during cleaning cycle or for the sample water during measurement cycle
3	Discharge funnel
4	120 Ω terminating resistor
5	Cleaning solution 1
6	Cleaning solution 2
7	Inlet for sample water
8	Connection for cleaning solution 2
9	Connection for cleaning solution 1
10	Connection to power supply and büS

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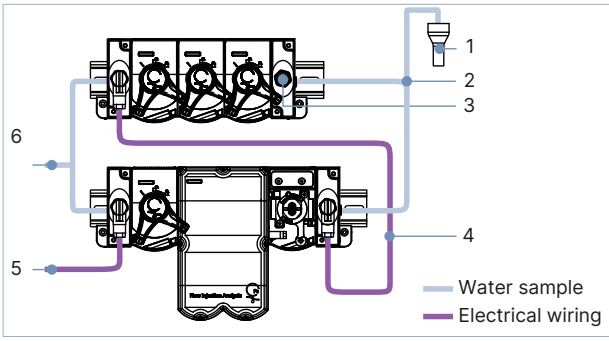
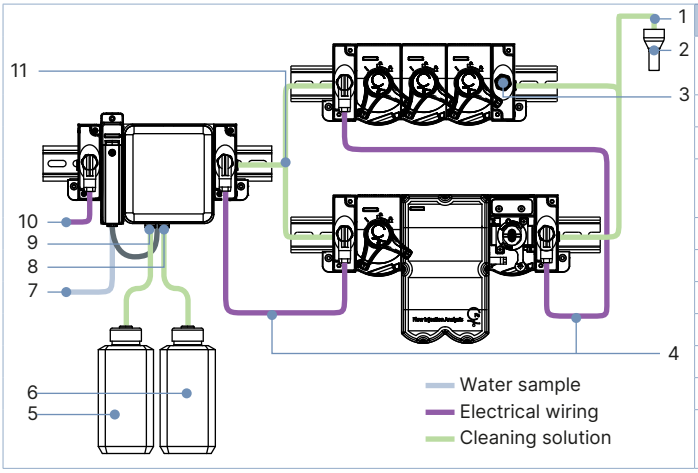
Configuration as a multi-line architecture of the online water analysis system

- In this example,the system, comprising exclusively measuring sensor cubes and installed on 2 standard rails, operates in **measurement mode**. If a line is not connected to another line, it must be equipped with a 120 Ω terminating resistor, as its output is not connected to any other input.



No.	Description
1	Discharge funnel
2	Outlet for sample water
3	120 Ω terminating resistor
4	Electrical interconnection cable between the different sensor module lines
5	Connection to power supply and büS
6	Inlet for sample water

- In this example,the system with measuring sensor cubes and cleaning system, installed on 3 standard rails, is currently performing the **cleaning operation sequence**.
  In this configuration, the cleaning system is assembled together with its control module (I/O modules). The complete assembly is then connected directly to one or more online water analysis system, ensuring full functional integration and centralised management of signals and power. The fluid outlet of the cleaning system has to be connected to the inlet of the different available lines of the online water analysis system. The electrical connection must also be made.
  The various online analysis systems, as well as the cleaning system, must be connected to the büS network using appropriate wiring. The system located at the end of the line must be equipped with a 120 Ω terminating resistor, as its output is not connected to any other input.



No.	Description
1	Outlet for the cleaning solution during cleaning cycle or for the sample water during measurement cycle
2	Discharge funnel
3	120 Ω terminating resistor
4	Electrical interconnection cable between the cleaning system and the different sensor module lines
5	Cleaning solution 1
6	Cleaning solution 2
7	Inlet for sample water
8	Connection for cleaning solution 2
9	Connection for cleaning solution 1
10	Connection to power supply and büS
11	Sample water connection hose between the cleaning system and the different sensor module lines

8. Product operation

8.1. Measurement principle

The sample water first passes through the cleaning module system, if present, before entering the online water analysis system.
During a measurement cycle, the individual sensor modules perform their respective measurements on the water flowing through them.
Depending on the process conditions, the water used for the measurements can be discharged into the wastewater system, collected in a tank for later reuse, or returned to the main process stream via a pump.

During a cleaning cycle, the sample water flow is temporarily interrupted while the selected cleaning solution circulates through the system before being discharged into the wastewater system. Once the programmed contact time has elapsed, the sample water flow is restored. When the flow resumes, the measurements recorded by the sensors do not immediately reflect the actual properties of the water, as the cleaning solution must first be flushed out of the system. The flushing phase, referred to the rinse cycle, depends on the length and configuration of the system and can be programmed to ensure accurate sensor measurements.

The use of one or two connections for cleaning solutions depends on the process conditions and the specific cleaning requirements. The cleaning process parameters are fully adapted to the application, water quality, customer environment, type of cleaning solution used, and desired cleaning sequences. This flexibiliy ensures effective and safe cleaning while maintaining system performance.
A 3-way solenoid valve can be added to direct the discharge of measurement water or cleaning solutions to the required collection point,

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such as the wastewater system or a tank (not shown in the previous illustration).

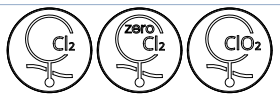
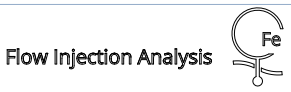
9. Product design and assembly

9.1. Product assembly

The Type 8905 online water analysis system is always equiped with the büS input and the büS output modules mounted on the appropriate backplanes.

Other components depend on the customer's specific requirements.

- A cleaning module, systematically associated with the control module, can also be included and is, if applicable, always placed next to the input module, see chapter "5. Dimensions" on page 8
- The measured parameters of the sensor modules that can be integrated into the system (up to 8 different sensor modules) are listed in the following table. See the data sheet of the sensor cubes used in the system for further information.

Sensor cubes	Measured physical value	Marking
pH sensor cube, see **data sheet Type MS01** ▸	pH and temperature	
Chlorine sensor cube, see **data sheet Type MS02** ▸	Chlorine, zero chlorine, chlorine dioxide and temperature	
Conductivity sensor cube, see **data sheet Type MS03** ▸	Conductivity and temperature	
ORP sensor cube, see **data sheet Type MS04** ▸	Redox potential	
Turbidity sensor cube, see **data sheet Type MS05** ▸	Turbidity ISO	
Flow injection analysis (FIA) sensor cube, see **data sheet Type MS06** ▸	Dissolved iron (Fe^{2+}/Fe^{3+})	

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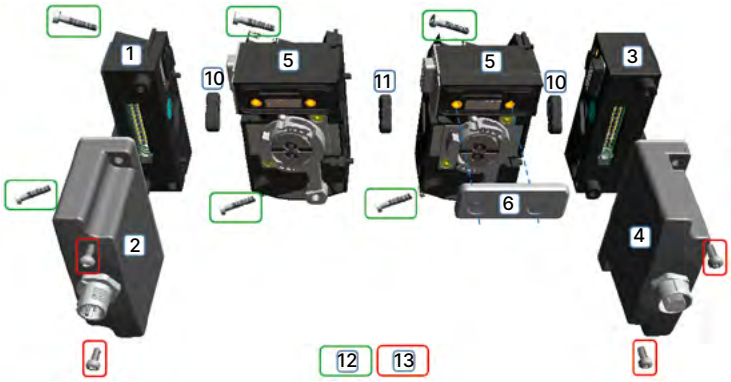
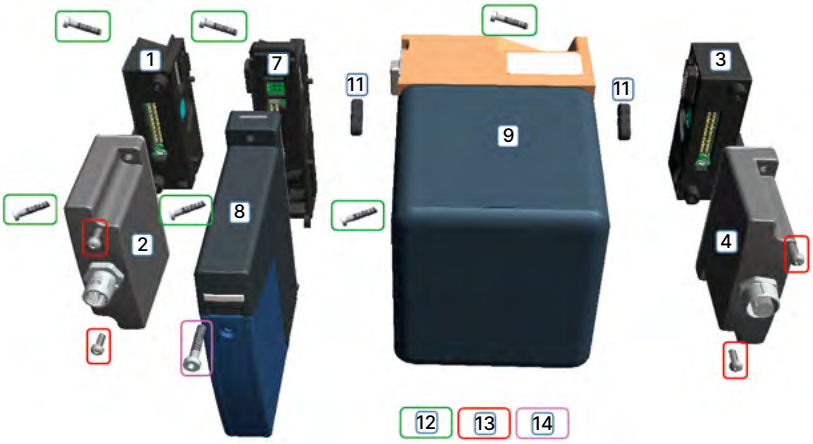
9.2. Example configuration

Configuration with fluidic backplanes for sensor cubes Type MSxx



Configuration with cleaning module and control module



Configuration with fluidic backplanes for sensor cubes Type MSxx, cleaning module and control module

No.	Description	No.	Description
1	Backplane for input module, left	8	Control module (4 DO + F(x))
2	Input module, M12 male, left (inlet)	9	Cleaning module
3	Backplane for output module, right	10	Seal, 1x hole
4	Output module, M12 female, right (outlet)	11	Seal, 3x holes
5	Fluidic backplane for sensor-cube Type MSxx	12	Screws for backplanes
6	Blind cover of the fluidic backplane	13	Screws for input/output module
7	Backplane for control module	14	Screws for control module

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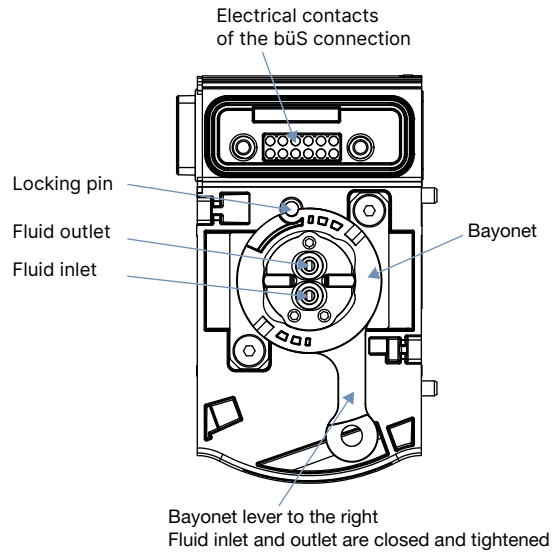
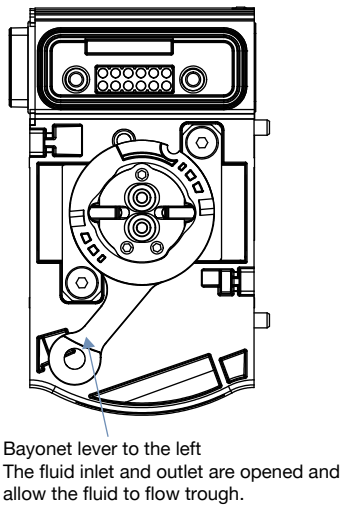
9.3. Mechanical interfaces of the sensor cubes

All fluidic backplanes intended for the sensor cubes have the same design. Thus any sensor cube can be plugged on any mechanical interface.
The interconnected backplanes simultaneously provide the power supply, convey the water sample to the sensor modules, and establish the serial büS connection.

Position of the lever	
if no sensor cube is plugged in	**if a sensor cube is plugged in**
	

10. Product accessories

10.1. Bürkert Communicator Software Type 8920

Note:
The associated communication software can be downloaded under **Type 8920** ▶.

The Bürkert Communicator is the most important software tool of the device platform EDIP (Efficient Device Integration Platform). The extensive features of this universal tool facilitate the configuration and parameterisation of all devices equipped with the digital CAN-open-based interface.
The Bürkert Communicator provides the user with a complete overview of all cyclic process values and acyclic diagnostic data. The integrated graphical programming environment enables the creation of control functions for decentralised sub-systems. The connection to the PC can be established via a USB-büS interface set. This is available as an accessory (see **"12.5. Ordering chart accessories" on page 16**).

The Bürkert Communicator enables:

- Configuration, parameterisation and diagnosis of EDIP devices / networks
- Easy and convenient assignment (mapping) of cyclic values
- Graphical display of process values
- Firmware update for the connected EDIP devices
- Backup and restoring of device configurations
- Zero-point adjustment
- Guided re-calibration routine

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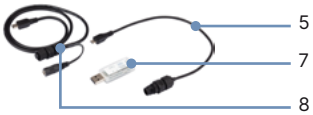
10.2. USB-büS-Interface set Type 8923

Note:
To configure a device without a display, use the USB-büS-Interface set, Type 8923 and the Bürkert Communicator software Type 8920.

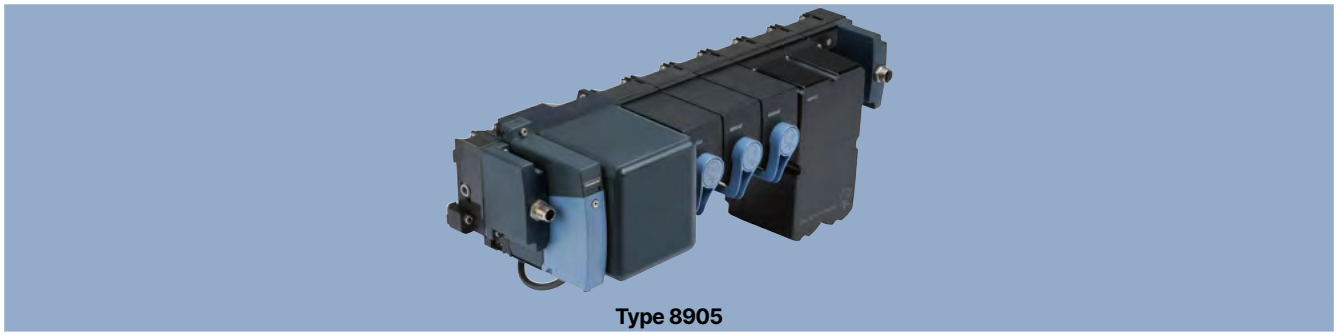
See "12.5. Ordering chart accessories" on page 16 for ordering information and **software manual Type 8920** ▶ for more information.

Accessories	No.	Description
USB-büS interface set 1 	**1**	Quick-Start
	2	Power supply: 100...240 V AC/24 V DC 1 A and power supply adapters for worldwide use
	3	büS terminating resistor on büS Y-splitter
	4	5-pin M12 male connector wired on free end cable, cable length: 0.2 m
	5	büS connection cable with 5-pin M12 male connector, micro USB B plug, cable length: 0.3 m
	6	büS adapter with 5-pin M12 male connector, A-coded to 5-pin M12 male connector, A-coded
	7	büS stick (USB to büS/CANopen adapter)
	8	büS service cable with 5-pin M12 female connector, mini USB plug and circular female connector for power supply, cable length: 0.7 m
	9	Magnetic key
USB-büS interface set 2  		The Bürkert Communicator software can be downloaded from our website under the "Software" heading of **Type 8920** ▶.

11. Networking and combination with other Bürkert products

11.1. Networking and combination of the device

Example:



Type ME61 ▶ EDIP process display	**Type ME43** ▶ Fieldbus gateway	**Type ME63** ▶ Industrial Ethernet gateway, IP65/IP67/ IP69k	**Type ME44** ▶ I/O module, IP20	**Type ME66** ▶ Passive junction box, IP65/IP67/IP69k	**Type MZ15** ▶ Manual calibration and cleaning module

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12. Ordering information

12.1. Bürkert eShop

Bürkert eShop – Easy ordering and quick delivery

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

Order online now

12.2. Recommendation regarding product selection

The online water analysis system Type 8905 is a compact and modular system, offering a wide range of configuration possibilities.
In order to provide you with the best possible advice, contact your Bürkert sales office for a customised system study and design.

12.3. 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

12.4. Ordering chart

Note:
Given the large number of possible configuration options, we recommend that you contact your Bürkert sales office.
This will ensure that you choose a solution perfectly suited to your specific requirements. Consequently, this document only presents the reference of the cleaning system which can operate as a standalone system.

Description	Article no.
Cleaning system (cleaning module, control module, input and output modules on backplanes) without cleaning solution Further information can be found in chapter "7.1. Installation notes" on page 9.	567124

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12.5. Ordering chart accessories

Description		Article no.
Solutions		
Citric acid cleaning solution	1000 ml	807479
	5000 ml	807480
Sulfamic acid cleaning solution, Floran TOP Zero (1:10 dilution)	5000 ml	713128
Alkaline cleaning solution	1000 ml	807487
	5000 ml	807479
Installation materials		
Sample water hose 4/6 mm	5 m	567793
	10 m	567701
	25 m	567794
Set with a pressure regulator (Article no. 774322), a bourdon tube pressure gauge (0...4 bar), a holder and a nut		775799
Pressure regulator (pressure inlet: 0...10 bar, pressure outlet: 0...4 bar, inlet and outlet: G ¼, internal parts in stainless steel)		774322
Filter housing made of plastic with NBR seal for filter element 50 µm, inlet and outlet ¼"		774292
Filter housing made of plastic with NBR seal for filter element 90 µm, 140 µm or 220 µm, inlet and outlet ¼"		774287
Filter element	50 µm	774293
	90 µm	774290
	140 µm	774291
	220 µm	776133
Bubble trap		568492
Interface accessories		
USB-büS-Interface set		
USB-büS interface set 1 (Type 8923) Further information can be found in chapter "10. Product accessories" on page 13.		772426
USB-büS interface set 2 (Type 8923) Further information can be found in chapter "10. Product accessories" on page 13 .		772551
Connectors and sockets		
büS Y-distributor (M12 female connector, 5-pin to M12 male and female connectors, 5-pin)		772420
büS Y-distributor with power interrupt (M12 female connector, 5-pin to M12 male and female connectors, 5-pin)		772421
büS adapter (M12 male connector, 5-pin, A-coded to M12 male connector, 5-pin, A-coded)		772867
büS terminating resistor 120 Ω, M12 male connector, 5-pin		772424
büS terminating resistor 120 Ω, M12 female connector, 5-pin		772425
Extensions		
M12 female and male connectors, 5-pin, straight, moulded on büS cable, shielded	0.5 m	772403
	1 m	772404
	3 m	772405
	5 m	772406
	10 m	772407
	20 m	772408
M12 female and male connectors, 5-pin, angled, moulded on büS cable, shielded	1 m	568513
	5 m	570735
M12 female connector, 5-pin, angled, moulded on büS cable, with open leads	2 m	568498
	5 m	568499
	10 m	568506
	20 m	568507
Software		
Software Bürkert Communicator		Download **Type 8920**

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