



Online Analysis System

Type description

in the software of the system.

up, as well as operation and maintenance.

- For analysis applications for drinking water and fresh water in industrial processes
 - Modular sensor and electronic system: – up to 6 measurements in one housing – up to 30 analysis sensor cubes in one Bürkert system bus (büS)
- Prepared for fielbus connectivity and remote access
- MEMS technologies allows minimal footprint and minimum sample water demand



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

Type 8905 Online Analysis System is a compact and modular system for

monitoring all important water parameters on one platform. It is a multichan-

The following parameters can be integrated into an online analysis system:

A modular system concept allows the measuring system to be assembled

according to customer requirements and enables simple installation and start-

For maintenance, sensors can be removed without tools, while the remaining

touch display or Bürkert Communicator. In addition to the display and storage of analysis parameters, other functions are possible, for example: programming of simple control algorithms using f(x), interventions in the process via

sensors continue to measure. The sensors are operated via an integrated 7"

analog and digital inputs and outputs, performing sensor calibrations.

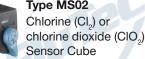
Type 8905 is available as a compact system in one housing, as well as a customised system. For a system configuration please contact your Bürkert

pH, chlorine/chlorine dioxide, conductivity, ORP, turbidity, temperature.

nel measuring system for the Bürkert sensor cubes as well as other electronic modules from the EDIP platform. The efficient device integration platform (EDIP) allows a high flexibility by using modularity in the hardware as well as

Can be combined with





Type MS03 Conductivity Sensor Cube

Type MS04 ORP Sensor Cube



Type MS05Turbidity Sensor Cube



Type 8920Bürkert Communicator



Type ME2X System Control Unit



Type MZ20 Cleaning System



sales center.



บริษัท ฟลูเทค จำกัด FLU-TECH CO.,LTD

845/3-4 หมู่ 3 ถ.เทพารักษ์ ต.เทพารักษ์ อ.เมือง จ.สมุทรปราการ 10270

845/3-4 Thepharak RD., T.Thepharak, A.Muang, Samutprakarn 10270 THAILAND Tel. 0 2384 6060, Fax 0 2384 5701, Email : sales@flutech.co.th, www.flutech.co.th



Table of contents

1.	Ger	General technical data							
2.	Mat	terials	4						
	2.1.	Chemical Resistance Chart – Bürkert resistApp	1						
	2.1.	Material specifications							
	2.2.		. 7						
3.	Dim	iensions	5						
4	Dre	duct design and secondly	6						
4.	Pro	duct design and assembly	-						
	4.1.	Product assembly	.6						
		Housing for the electric modules	.6						
		Sensor cube housing	.7						
		Mechanical interfaces of the sensor cubes	.8						
5.	Pro	duct accessories	8						
6.	Ord	lering information	9						
<u>.</u>	oru		3						
	6.1.	Bürkert eShop – Easy ordering and quick delivery							
	6.2.	Recommendation regarding product selection	.9						
	6.3.	Bürkert product filter	.9						
	6.4.	Ordering chart	.9						
	6.5.	Ordering chart accessories	10						

Visit product website

Fluid Control Specialists



บริษัท ฟลูเทค จำกัด 845/3-4 หมู่ 3 ถ.เทพารักษ์ ต.เทพารักษ์ อ.เมือง จ.สมุทรปราการ 10270



1. General technical data

Product properties	
Material	
Please make sure the device materials a	re compatible with the fluid you are using. Detailed information can be found in chapter
"2.1. Chemical Resistance Chart – Bü	rkert resistApp" on page 4.
Housing	PC (black, UV stabilized, UL94 V0)
Cover of the electronic module housing	PC (glass fibre reinforced, UV stabilized, UL94 V0, anthracite grey), PC (black, UV stabilized, UL94 V0) and glass
Cover of the sensor cube housing	PC (glass fibre reinforced, UV stabilized, UL94 V0, anthracite grey) and PC (transparent)
Studs	Stainless steel
Cable entry plate	Elastomer
Fluid connection	Biopolymer (EPDM seals)
Wall-mounting bracket	Stainless steel
Self-adhesive bumpers	Polyurethane
Dimensions	Detailed information can be found in chapter "3. Dimensions" on page 5.
Data memory or data-logger	Integrated Micro SD, 2 GB; adjustable logging interval; external reading via USB or LAN port
Display	780 × 460 pixels resolution
	Capacitive 7" Touchscreen, backlit
Weight	 Approx. 8 kg (if equipped with 1 × 100240 V AC power supply module + 1 x HMIU module + 5 sensor cubes)
	Up to 12 kg (if totally equipped)
Electrical data	
Operating voltage ("SUPPLY")	• 100240 V AC 50/60 Hz
	- current consumption at 100 V AC: 0.8 A
	- current consumption at 240 V AC: 0.8 A
Tec	 Integrated protective fuse: a slow blow 2 A fuse. The fuse cannot be replaced an is integrated in the power supply. 2030 V DC, ±10% tolerance, filtered and regulated connection to main supply: permanent (through external SELV and LPS power supply)
Power consumption	Max. 96 VA
Medium data	
Fluid	Water without particles: drinking water, industrial water
Eluid pH range ^{1.)}	
Fluid conductivity	 >50 µS/cm if there is no pH sensor cube
wol SP	 >100 μS/cm if there is one pH sensor cube
Fluid temperature	+3 °C+40 °C (+37 °F+104 °F)
Fluid pressure	Refer to See data sheets of the sensor cubes and accessories, use the lowest pressure
Fluid flow rate	Min. flow rate: 6 l/h per installed sensor module, so with e.g. 3 sensor modules the min. flow rate is $6+6+6=18$ l/h due to parallel installation.
Process/Port connection & communic	cation
Sensor cubes	Max. 6 internal sensor cubes, max. 2 measurement water
	Max. connection of 30 external sensor cubes via Bürkert-Systembus (büS)
	Max. büS length 100 m (without T-connections)
Approvals and Certificates	
Standards	
Degree of protection acc. to IEC/EN 60529	IP65 with closed and tight housings
Directives	
CE directives	The applied standards, which verify conformity with the EU Directives, can be found on the EU Type Examination Certificate and/or the EU Declaration of conformity (if applicable)

Visit product website 🕨



บริษัท ฟลูเทค จำกัด 845/3-4 หมู่ 3 ถ.เทพารักษ์ ต.เทพารักษ์ อ.เมือง จ.สมุทรปราการ 10270

845/3-4 Thepharak RD., T.Thepharak, A.Muang, Samutprakarn 10270 THAILAND Tel. 0 2384 6060, Fax 0 2384 5701, Email : sales@flutech.co.th, www.flutech.co.th



Wall mount unit, click system with wall-mounting bracket
 Operation: 0 °C+40 °C (-4 °F+104 °F)
 Storage: -20 °C+70 °C (-4 °F+140 °F) (without sensor cube)
<95 %, without condensation
Max. 2000 m
Continuous
Fixed
Indoor
With an AC switched-mode power supply: category II, according to UL/EN 61010-1
 With a direct DC power supply: Category I, according to UL/EN 61010-1
Degree 2, according to UL/EN 61010 - 1 with closed and tight housings

1.) When a chlorine sensor cube is present within the system: pH value is restricted to pH 5...pH 9

2. Materials

2.1. Chemical Resistance Chart – Bürkert resistApp

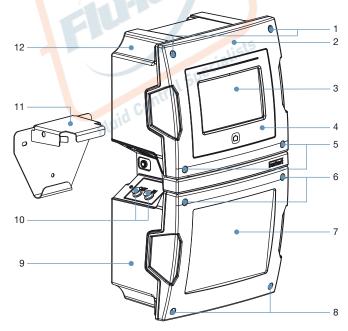


Bürkert resistApp – Chemical Resistance Chart

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

Start Chemical Resistance Check

2.2. Material specifications



No.	Material				
1	Stainless steel				
2	PC, glass fibre reinforced, anthracite grey				
3	Glass				
4	PC, black				
5	Stainless steel				
6	Stainless steel				
7	PC, transparent				
8	Stainless steel				
9	PC, black				
10	Bio polymer, EPDM				
11	Stainless steel				
12	PC, black				

4 | 11

Visit product website >

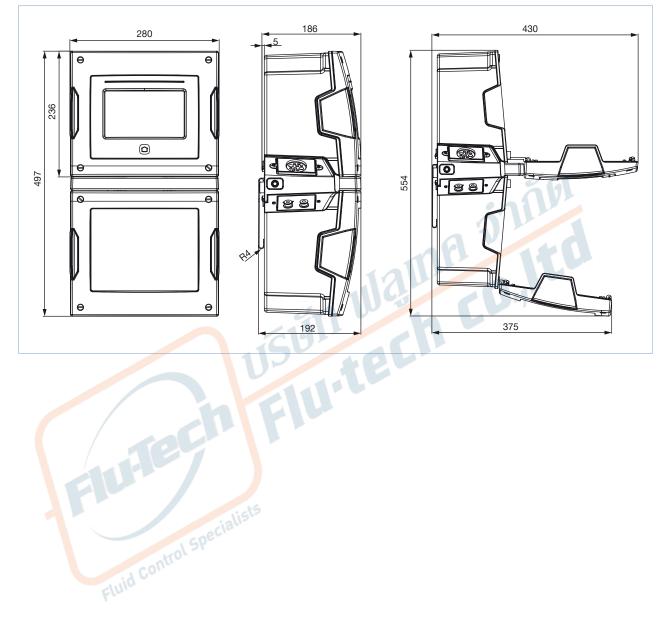


๊ด 845/3-4 หมู่ 3 ถ.เทพารักษ์ ต.เทพารักษ์ อ.เมือง จ.สมุทรปราการ 10270

845/3-4 Thepharak RD., T.Thepharak, A.Muang, Samutprakarn 10270 THAILAND Tel. 0 2384 6060, Fax 0 2384 5701, Email : sales@flutech.co.th, www.flutech.co.th

burkert

3. Dimensions



DTS 1000220829 EN Version: J Status: RL (released | freigegeben | validé) printed: 23.02.2022

Visit product website



บริษัท ฟลูเทค จำกัด 845/3-4 หมู่ 3 ถ.เทพารักษ์ ต.เทพารักษ์ อ.เมือง จ.สมุทรปราการ 10270

845/3-4 Thepharak RD., T.Thepharak, A.Muang, Samutprakarn 10270 THAILAND Tel. 0 2384 6060, Fax 0 2384 5701, Email : sales@flutech.co.th, www.flutech.co.th



4. Product design and assembly

4.1. Product assembly

Housing for the electric modules

The device is always equipped with the following electronic modules:

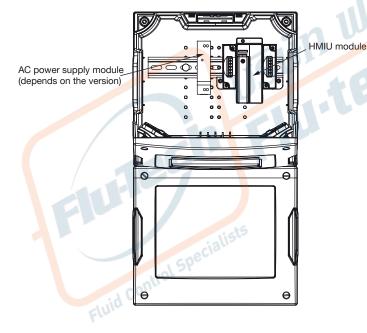
- HMIU (Human Machine Interface Unit) incl. USB slot and Ethernet connection •
- 7" touchscreen incl. USB slot
- Option: PSU mains supply 100...240 V AC .
- 2xbüS connector •

A total of 7 slots (5 for 230V/115V AC version) are available for electronic modules:

- Digital and analogue inputs and outputs •
- Fieldbus gateway ٠

The main housing parts for the electric modules are shown in the following drawing. Depending on the configuration of the device and for a complete description and for the technical data related to the electronic modules, refer to the data sheets of each electronic modules.

See data sheet Type ME2X > for more information.



DTS 1000220829 EN Version: J Status: RL (released | freigegeben | validé) printed: 23.02.2022

Visit product website >



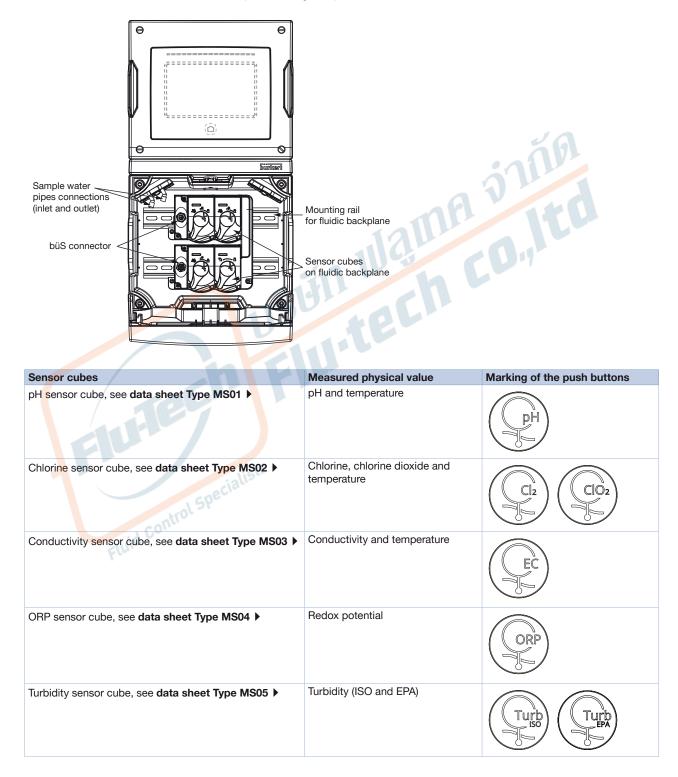
บริษัท ฟลูเทค จำกัด 845/3-4 หมู่ 3 ถ.เทพารักษ์ ต.เทพารักษ์ อ.เมือง จ.สมุทรปราการ 10270

845/3-4 Thepharak RD., T.Thepharak, A.Muang, Samutprakarn 10270 THAILAND Tel. 0 2384 6060, Fax 0 2384 5701, Email : sales@flutech.co.th, www.flutech.co.th



Sensor cube housing

The device can contain one to six sensor cubes. The main housing parts for the sensor cubes are shown in the following drawing. Depending on the configuration of the device and for a complete description and for the technical data related to the sensor cubes, refer to the data sheets of each sensor cubes (see following table).



Visit product website 🕨

FLU-TECH CO.,LTD



บริษัท ฟลูเทค จำกัด 845/3-4 หมู่ 3 ถ.เทพารักษ์ ต.เทพารักษ์ อ.เมือง จ.สมุทรปราการ 10270

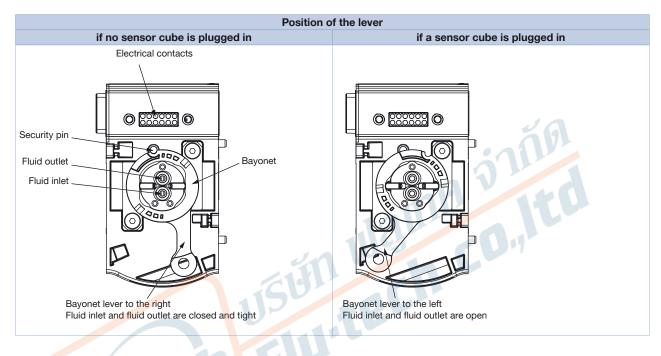
845/3-4 Thepharak RD., T.Thepharak, A.Muang, Samutprakarn 10270 THAILAND Tel. 0 2384 6060, Fax 0 2384 5701, Email : sales@flutech.co.th, www.flutech.co.th



Mechanical interfaces of the sensor cubes

All the fluidic backplanes for the sensor cubes have the same design. Thus any sensor cube can be plugged on any mechanical interface.

The backplanes are connected to each other and feed the sensor cubes parallel with the power supply, the sample water and serial büS connection.

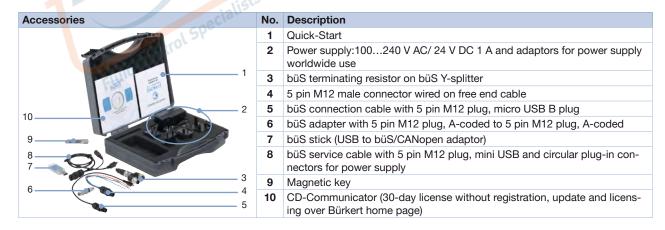


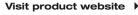
5. Product accessories

Note:

To set up a device without a display, please use the USB-büS interface, Type 8923 and the Bürkert Communicator Type 8920.

See Software manual Type 8920 > for more information.







้**บริษัท ฟลูเทค จำกัด** 845/3-4 หมู่ 3 ถ.เทพารักษ์ ต.เทพารักษ์ อ.เมือง จ.สมุทรปราการ 10270

8 | 11

845/3-4 Thepharak RD., T.Thepharak, A.Muang, Samutprakarn 10270 THAILAND Tel. 0 2384 6060, Fax 0 2384 5701, Email : sales@flutech.co.th, www.flutech.co.th



6. Ordering information

6.1. Bürkert eShop - Easy ordering and quick delivery



Bürkert eShop - Easy ordering and fast delivery

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

Order online now

6.2. Recommendation regarding product selection

The Online Analysis System Type 8905 is a compact and modular system in a single housing, offering a wide range of configuration possibilities.

Thank you for your interest in our products! In order to provide you with the best possible advice, please contact your local Bürkert branch office for customised system design.

6.3. Bürkert product filter

×	Process Can	nection 27	Yuttage / Frequency	Process	Pressure / erature	Sealing	Bürke
0	Advanced for	- 0	Column at these Nominal pressure may		Nominal	pressure max	You w Use th easily
	-a	bar 0.5	2	bar	(gas)	25	Try

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

6.4. Ordering chart

Note :

This table shows exemplary configurations of the online analysis system.

Description	Operating Equipment							Article no.
FLUID	voltage	MS01 sensor cube pH	MS02 sensor cube Chlorine	MS03 sensor cube Conduc- tivity	MS04 sensor cube ORP	MS05 sensor cube Turbidity	PSU: incl. 100240 V AC power supply	
Online Analysis System –	24 V DC	1	-	1	-	1	-	On request
pH, Conductivity, Turbidity	100240 V AC	1	-	1	-	1	1	
Online Analysis System -	24 V DC	1	1	-	-	1	-	
pH, Chlorine, Turbidity	100240 V AC	1	1	-	-	1	1	
Online Analysis System -	24 V DC	1	-	1	1	1	-	
pH, ORP, Conductivity, Turbidity	100240 V AC	1	-	1	1	1	1	
Online Analysis System -	24 V DC	1	1	-	1	1	-	
pH, Chlorine, ORP, Turbidity	100240 V AC	1	1	-	1	1	1	
Online Analysis System -	24 V DC	1	1	1	1	1	-	
pH, Chlorine, Conductivity, ORP, Turbidity	100240 V AC	1	1	1	1	1	1	

Visit product website



บริษัท ฟลูเทค จำกัด 845/3-4 หมู่ 3 ถ.เทพารักษ์ ต.เทพารักษ์ อ.เมือง จ.สมุทรปราการ 10270



6.5. Ordering chart accessories

Description		Article no.				
Sample water pipe 4/6 mm, 5 m		567793 🛒				
Sample water pipe 4/6 mm, 10 m						
Sample water pipe 4/6 mm, 25 m	Sample water pipe 4/6 mm, 25 m					
Strainer 100 µm						
Pressure reducer						
eaning system, 2 solutions						
et including the wall-mounting bracket with four self-adhesive bumpers						
Set with a pressure reducer (including a 100 μm strainer, a saing bracket with nut (for the pressure reducer), a pressure gal couplings		566319 🛱				
Bubble trap	50	568492 🛒				
Filter housing made of plastic with NBR seal for filter elemen	t 50 μm, inlet and outlet 1/4"	774292 🛒				
Filter housing made of plastic with NBR seal for filter elemen	t 90 μm or 140 μm, inlet and outlet 1/4"	774287 🛒				
Filter element 50 µm		774293 🛒				
Filter element 90 µm		774290 🛒				
Filter element 140 µm	10	774291 🛒				
Interface accessories						
büS Stick Set						
USB-büS-Interface Set 1, Type 8923 Detailed information can be found in chapter "5. Product accessories" on page 8.						
USB-büS Interface Set 2, Type 8923 (only büS Stick, cable a	nd büS service cable)	772551 🛒				
Connectors and sockets						
büS Y-connector, 5 pin M12 female to 5 pin M12 male and 5	pin M12 female	772420 🛒				
büS Y-connector, 5 pin M12 female to 5 pin M12 male and 5	pin M12 female (power interrupt)	772421 🛒				
büS adaptor M12 male A-coded - M12 male A-coded		772867 🛒				
büS termination, 5 pin M12 male cable plug		772424 🖳				
büS termination, 5 pin M12 female cable plug		772425 🛒				
Extensions						
5 pin M12 female and male straight cable plug	0.5 m	772403 🛒				
moulded on cable, shielded	1 m	772404 🛒				
cialis.	3 m	772405 🛒				
1 Spec.	5 m	772406 🛒				
atrol	10 m					
moulded on cable, shielded	20 m	772408 🛒				
Software						
Software Bürkert Communicator		Download Type 8920				

Visit product website



บริษัท ฟลูเทค จำกัด 845/3-4 หมู่ 3 ถ.เทพารักษ์ ต.เทพารักษ์ อ.เมือง จ.สมุทรปราการ 10270

845/3-4 Thepharak RD., T.Thepharak, A.Muang, Samutprakarn 10270 THAILAND Tel. 0 2384 6060, Fax 0 2384 5701, Email : sales@flutech.co.th, www.flutech.co.th