



Conductivity Sensor Cube

- Fully compatible with büS systems and a wide range of further analysis sensor cubes
- Resistive 2-electrode sensor
- Modular sensor cube for hot swap (exchange during operation)
- Minimal sample water flow needed

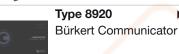


Product variants described in the data sheet may differ from the product presentation and description.

Can be combined with



Type 8905Online Analysis System



Type description

The device is a conductivity measurement sensor. It is used within the Online Analysis System Type 8905 by being plugged into a spare fluidic backplane slot.

The conductivity of water follows in general the content of dissolved substances in the water. Not only the absolute value at each moment is an indicator for the continuity of the water quality, but quick changes in the conductivity may indicate unwanted change in the water. A rising or falling value can also be used as an indicator for process feedback in specific treatment steps.

The electrical and fluidic connections are made via the connection panel of the system. The sensor cube is communicating with the system via büS, allowing fully automatic login to the online analysis system. If the sensor is plugged into the system, it automatically logs on to the büS and can be parameterised according to customer requirements.



845/3-4 หมู่ 3 ถ.เทพารักษ์ ต.เทพารักษ์ อ.เมือง จ.สมุทรปราการ 102070



Table of contents

1.	General technical data		3
2.	Mat	erials	4
	2.1.	Chemical Resistance Chart – Bürkert resistApp	.4
3.	Dim	iensions	4
4.	Pro	duct installation	5
	4.1.	Installation notes	.5
5.	Pro	duct design and assembly	5
	5.1.	Product features	.5
6.	Ordering information		6
	6.1.	Bürkert eShop – Easy ordering and quick delivery	.6
	6.2.	Bürkert product filter	.6
	6.3.	Bürkert product filter Ordering chart	.6
	6.4.	Ordering chart accessories	.6



845/3-4 หมู่ 3 ถ.เทพารักษ์ ต.เทพารักษ์ อ.เมือง จ.สมุทรปราการ 102070

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



1. General technical data

Product properties						
Material						
Please make sure the device materials are	1 5 6					
Detailed information can be found in chapter "2.1. Chemical Resistance Chart – Bürkert resistApp" on page 4						
Housing	PPE+PS					
Lever	Zamak, painted					
Seals	EPDM					
Dimensions	Detailed information can be found in chapter "3. Dimensions" on page 4 .					
Conductivity sensor	Graphite 2-electrode system, C=1					
Temperature sensor	Pt1000 Class B, contact with the water sample					
Compatibility	With Online Analysis System Type 8905 (the electrical and fluidic contact is made via backplane system.) Detailed information can be found in the data sheet of the online analysis system, see data sheet Type 8905 ▶ for more information.					
Measuring range	50 μS/cm5000 μS/cm (measurement up to 10 mS/cm possible at limited measure- ment deviation)					
Maintenance	12 months nominal, depending on the water quality					
Performance data						
Conductivity measurement						
Measurement compensation	Temperature compensated					
Measurement deviation	±2% of measured value					
Linearity	±0.2% of full scale					
Repeatability	±0.2% of full scale					
Response time (t ₉₀)	<5 s					
Temperature measurement	0+50 °C (+32+122 °F)					
Electrical data						
Operating voltage	24 V <mark>DC throug</mark> h the <mark>ba</mark> ckpl <mark>ane of</mark> the system Type 8905 via büS					
Power consumption	0.8 VA					
Media data						
Fluid	Water without particles: drinking water, industrial water					
pH range	рН 4рН 9					
Sample water						
Temperature	+ <mark>3</mark> +4 <mark>0 °C</mark> (+37+104 °F)					
Pressure	PN3					
Flow rate	>6 l/n					
Process/Port connection & communica	tion					
Process connection	Via pinch valve in the fluidic backplane of the Type 8905 Detailed information can be found in the data sheet of t the Online Analysis System, see data sheet Type 8905 ▶ for more information.					
Electrical connection	Spring contacts in the fluidic backplane of the Type 8905, which is connected to a büS System Detailed information can be found in the data sheet of t the Online Analysis System, see data sheet Type 8905 ▶ for more information.					
Data transfer						
Internal communication	Through büS (Bürkert bus, CANopen protocol)					
External communication by status LED	According to NAMUR NE 107					
Approvals and Certificates						
Standards						
Degree of protection according to IEC/	 IP65, when plugged in the fluidic backplane 					
EN 60529	IP20, as standalone product					
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).					



845/3-4 หมู่ 3 ถ.เทพารักษ์ ต.เทพารักษ์ อ.เมือง จ.สมุทรปราการ 102070

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



Environment and installation				
Ambient temperature				
Operating	0+40 °C (+32+104 °F)			
Storage and transport	For empty/purged sensor cube: -10+60 °C (+14+140 °F)			
Relative air humidity	≤90%, 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			

2. Materials

2.1. Chemical Resistance Chart – Bürkert resistApp



Bürkert resistApp – Chemical Resistance Chart

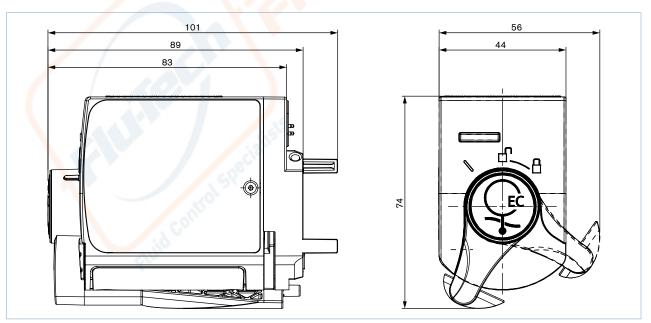
You want to ensure the reliability and durability of the materials in your individual application case? Verify your combination of media and materials on our website or in our resistApp.

Start Chemical Resistance Check

3. Dimensions

Note:

Dimensions in mm





845/3-4 หมู่ 3 ถ.เทพารักษ์ ต.เทพารักษ์ อ.เมือง จ.สมุทรปราการ 102070

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



4. Product installation

4.1. Installation notes

Note:

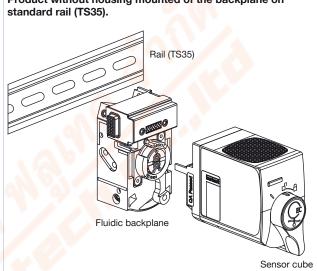
- The sensor cube is designed for use with the online analysis system, Type 8905. The sensor cube is simply plugged into the backplane in Type 8905.
- It is also possible to mount the backplane individually on a DIN rail.

See data sheet Type 8905 > Online Analysis System for more information.

Installation examples

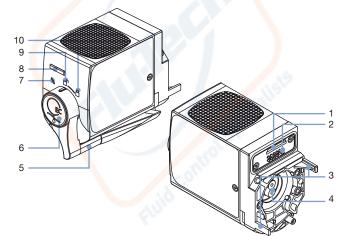
 Housing Type 8905 with display Type ME21 and controller Type ME25





5. Product design and assembly

5.1. Product features



Product without housing

No.	Element				
1	Slot micro-SIM card (for configuration data)				
2	Electrical interface				
3 Guide pins					
4	Fluid connections				
5	Lever to:				
	lock / unlock the product				
	carry out maintenance operations				
6	Push button for unlocking				
7	Maintenance position				
8	Sensor cube Status LED				
9	Unlocked position				
10	Locked position				



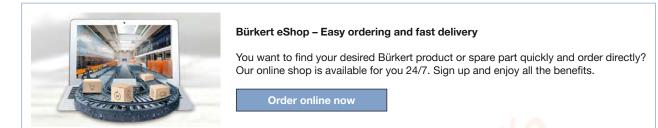
845/3-4 หมู่ 3 ถ.เทพารักษ์ ต.เทพารักษ์ อ.เมือง จ.สมุทรปราการ 102070

845/3-4 Thepaharak RD., T. Thepharak, A. Muang, Samutprakan 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



6.2. 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

6.3. Ordering chart

Note:

The conductivity sensor cube must be operated within a system.

Please refer to the order information for Online Analysis System Type 8905, see data sheet Type 8905 > or contact your Bürkert representative.

Description	Article no.
Conductivity sensor cube	567626 🚎

6.4. Ordering chart accessories

Description	Article no.
Calibration solution, 50 ml, 5 mS/cm (+25 °C)	807199 🛒

845/3-4 หมู่ 3 ถ.เทพารักษ์ ต.เทพารักษ์ อ.เมือง จ.สมุทรปราการ 102070