



Type MS03 can be combined with...



Online Analysis System

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

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 device contains a 2-electrode sensor for resistive measurement of conductivity.

The electrical and fluidic connections are made via the connection panel of the system. The sensor cube is communicating via büS, so the recognition at the Online Analysis System is fully automatic. When plugging into a system you will find the sensor in the list of büS members for further customized adjustments.

General data				
Compatibility	with Online Analysis System Type 8905			
	(see corresponding data sheet)			
Materials				
Housing / Lever / Seal	PPE+PS / PC / EPDM			
Electrical connection	Plugging/unplugging into backplane of the Type 8905			
Fluidic connection	Plugging/unplugging into backplane of the Type 8905			
Conductivity sensor	graphite 2-electrode system, C = 1			
Temperature sensor	Pt1000 Class B, contact with the water sample			
Conductivity measurement				
Measuring range	50 μS/cm1000 μS/cm ¹⁾			
Measurement deviation ²⁾	±2% of measured value			
Linearity	±0.2% of full scale			
Repeatability	±0.2% of full scale			
Response time (t90)	< 5 s			
Temperature measurement	0+50°C (+32+122°F)			
Maintenance	12 months nominal, depending on the water quality			
Type of medium	Water without particles: drinking water, industrial water			
pH value	pH 4pH 9			
Sample water temperature	+3+40°C (+37+104°F)			
Sample water pressure	PN3			
Sample water flow range	> 6 l/h			
Measurement compensation	Temperature compensated			
1) Management of the 10 of Class of the 1	limited management deviation			

¹⁾ Measurement up to 10 mS/cm possible at limited measurement deviation

1) = "measurement bias"	as defined in the standard JCGM 200:2012

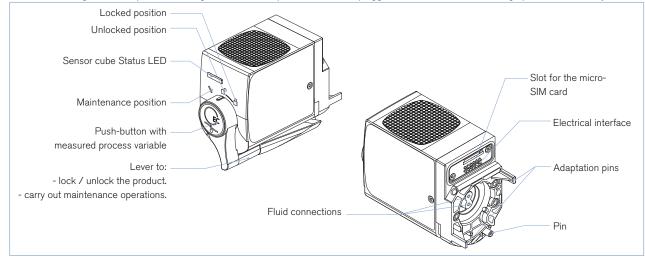
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Environment			
Ambient temperature			
Operating	0+40°C (+32+104°F)		
Storage (only never used sensor cube)	-10+60°C (+14+140°F)		
Relative humidity	< 90%, without condensation		
Height above sea level	max. 2000 m		



Electrical data	ectrical data	
Operating voltage	24 V DC through the backplane of the system Type 8095 via büS	
Power consumption	0.8 VA	
Internal communication	through büS (Bürkert bus)	
External communication by status LED	According to NAMUR NE 107	
Standards, directives and certification	Standards, directives and certifications	
Protection class acc. to EN 60529	IP65, when plugged in the fluidic backplane IP20, as standalone product	
Standard and 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)	
Certification UL-Recognized for US and Canada and is	pending	

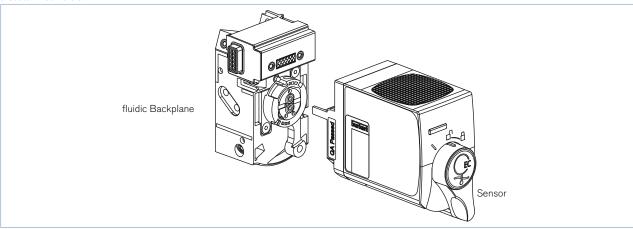
Design and principle of operation

The sensor cube gets the sample water through the fluidic backplane, in which it is plugged in. The measurement is an graphite 2-electrode system.



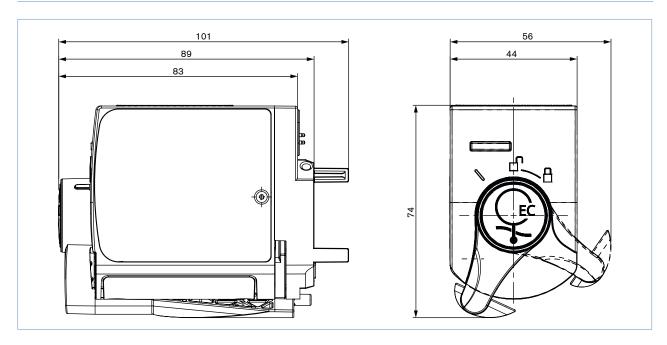
Installation into the Online Analysis System Type 8905

To operate a conductivity sensor cube it is necessary that a spare fluidic backplane is available. It can be installed in a compact system Type 8905 or in a customized version.





Dimensions [mm]



Ordering information and chart - Conductivity sensor cube

The conductivity sensor cube must be operated within a system.

Please refer to the order information for Online Analysis System Type 8905 or contact your Bürkert representative.

Description	Item no.
Conductivity sensor cube	567 632

Ordering chart - accessories and spare parts

Description	Item no.
Calibration solution, 300 ml, 100 μS	440 017
Calibration solution, 300 ml, 706 μS	440 018





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