MS04







- · Fully compatible with büS systems and a wide range of further analysis sensor cubes
- Modular sensor cube for hot swap (exchange during operation) •
- Minimal sample water flow needed •
- \bigcirc MUNICAT Type 8905 Online Analysis

System

Type 8920 Communicator

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

ORP value is one of the most important water parameters - it is an indicator for the activity of the disinfectant, with no measure of the applied dose but with measure of the remaining residual. The ORP measurement sensor cube contains a Pt electrode and an Ag/AgCl reference system.

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 is included in the list of büS members and further adaptations to customer requirements can be made.

General data			
Compatibility	with Online Analysis System Type 8905		
	(see corresponding data sheet)		
Materials			
Housing / Lever / Seal	PPE+PS / PC / EPDM		
Electrical connection	Spring contacts in the fluidic backplane of the Type 8905		
Fluidic connection	Via pinch valve in the fluidic backplane of the Type 8905		
ORP sensor	Platinum electrode		
ORP measurement			
Measuring range	-2000+2000 mV		
Measurement deviation*	±10 mV		
Response time (t90)	<10 s		
Electrolyte (reference electrode)	3 mol KCl		
Maintenance	12 months nominal, depending on the water quality		
Type of medium	Water without particles: drinking water, industrial water		
pH value	рН 4рН 9		
Sample water temperature	+3+40 °C (+37+104 °F)		
Sample water pressure	PN3		
Sample water flow range	>6 l/h		
Electrical 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		

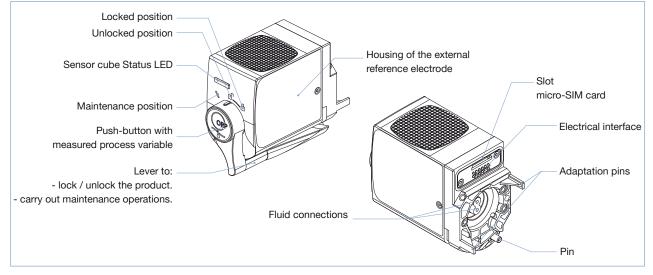
* ="measurement bias" as defined in the standard JCGM 200:2012



Environment	
Ambient temperature Operating Storage (only never used sensor cube)	0+40 °C (+32+104 °F) -10+60 °C (+14+140 °F) without the reference elec- trode +3+40 °C (+37+104 °F) with the reference electrode
Relative humidity	<90%, without condensation
Height above sea level	max. 2000 m
Standards, directives and certi	fications
Protection class (acc. to IEC/ EN 60529)	IP65, when plugged in the fluidic backplane IP20, as standalone product
Standard and directives CC	The applied standards, which verify conformity with the EU Directives, can be found on the EU Type Examina- tion Certificate and/or the EU Declaration of conformity (if applicable)

Design and principle of operation

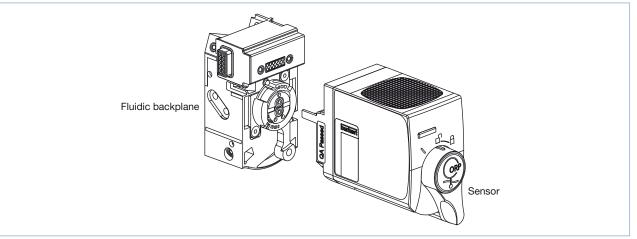
The sensor cube gets the sample water through the fluidic backplane, in which it is plugged in. The measurement is an potentiometric 2-electrode system (Platinum electrode and Ag/AgCl 3-mol KCl/I reference electrode).



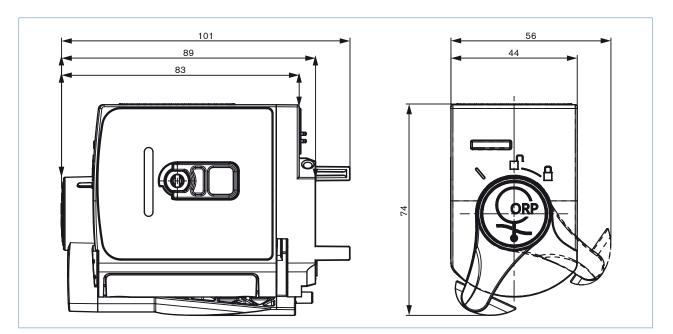


Installation into the Online Analysis System Type 8905

To operate a ORP 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.



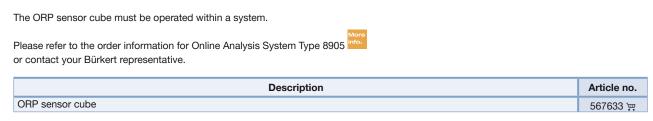
Dimensions [mm]



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Ordering information and chart - ORP sensor cube



Ordering chart - accessories and spare parts

Description	Article no.
Buffer solution 475 mV	418555 🛒
External reference electrode	566084 🛒



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

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