



Type MS02 can be combined with...



Type 8905

Online Analysis System



Communicator

Chlorine Sensor Cube

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

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

The chlorine sensor cube contains a high precision membrane covered amperometric sensor, based on Microelectromechanical systems technology (MEMS). The measurement signal shows the real content of HOCl in the sample water.

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

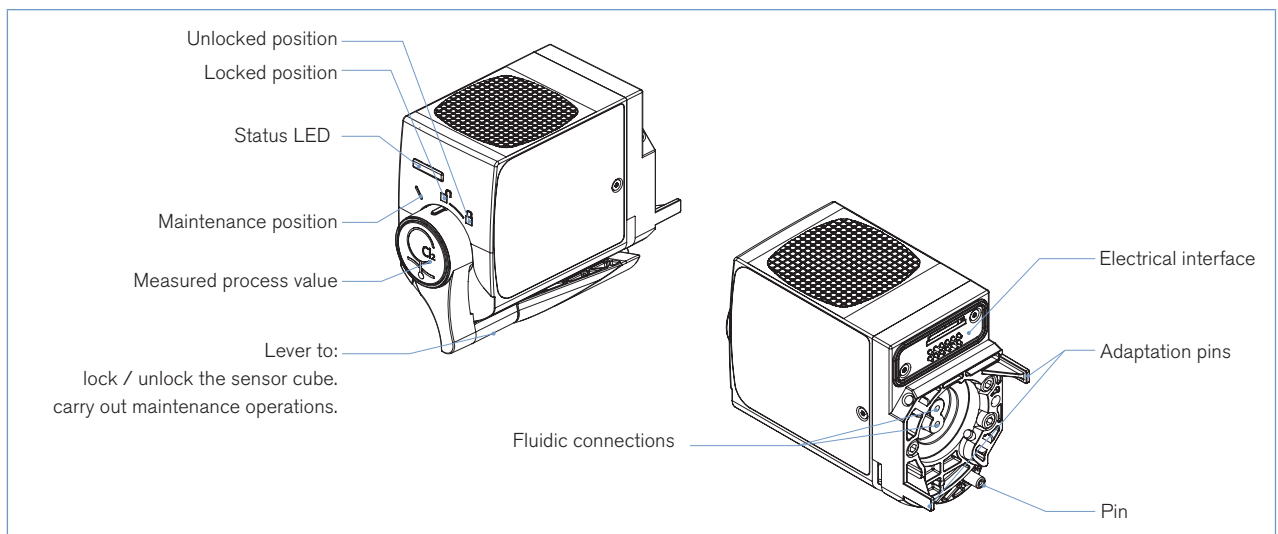
General data	
Compatibility	with Online Analysis System Type 8905 (see corresponding data sheet)
Materials	Housing, plug / Lever / Seal PPO / PC / EPDM
Electrical connection	Plugging/unplugging into backplane of the Type 8905
Fluidic connection	Plugging/unplugging into backplane of the Type 8905
Chlorine sensor	Membrane covered PT-cell - amperometric 3 electrodes measurement
Temperature sensor	PT1000 Class B, no contact with sample water
Chlorine measurement	Measuring range Sensitivity Sensor resolution Measurement deviation ("measurement bias" as defined in the standard JCGM 200:2012 Linearity Repeatability Response time (t90)
Temperature measurement	0 to 50°C (32 to 122°F)
Maintenance duration	12 months
Type of medium	Drinking water, industrial water pH value / Conductivity pH 5 to 9 / > 50 µs/cm
Sample water temperature	0 to 40°C (32 to 104°F), not freezing
Sample water pressure	PN 6
Sample water flow range	> 10 L/h
Environment	
Ambient temperature	Operating Storage
	0 to +40°C (-4 to 104°F) -20 to +60°C (-4 to 140°F), only for purged cube
Relative humidity	< 90%, without condensation
Max. height above sea level	max. 2000 m

MS02

Electrical data	
Operating voltage	24 V DC through backplane via büS
Power consumption	0.8 VA
Communication	büS
Status LED	Green for activation process, white for working process and red for error acc. to NAMUR NE 107
Standards, directives and approvals	
Protection class	IP65 acc. to EN 60529
Standard and directives	
EMC	EN 61000-6-3 EN 61000-6-2
Approvals	CE, UL pending

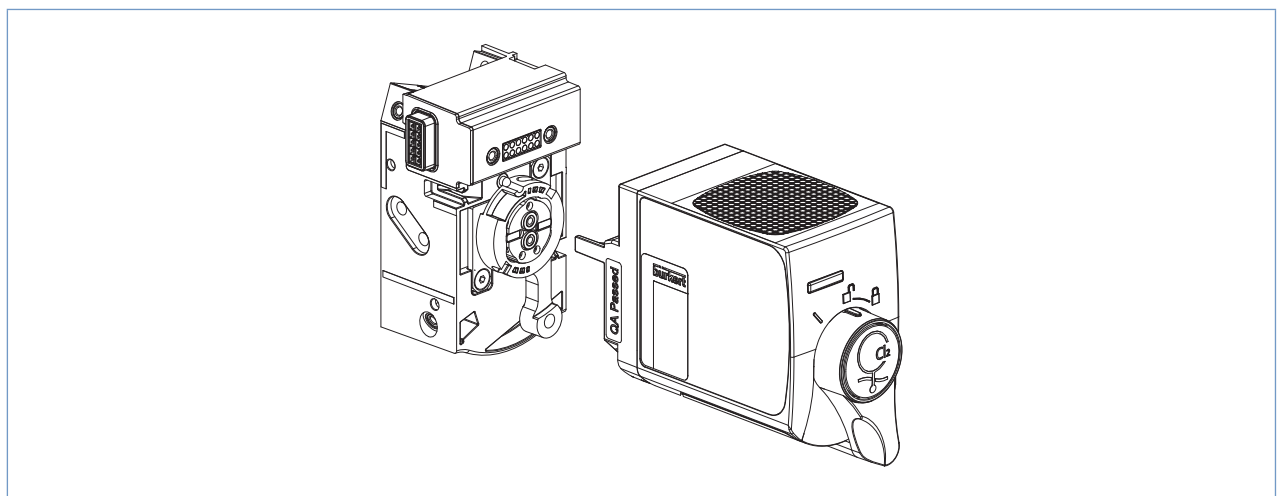
Design and principle of operation

The sensor cube gets the sample water through the fluidic backplane, in which it is plugged in. The measurement is an amperometric 3-electrode system covered by a membrane.



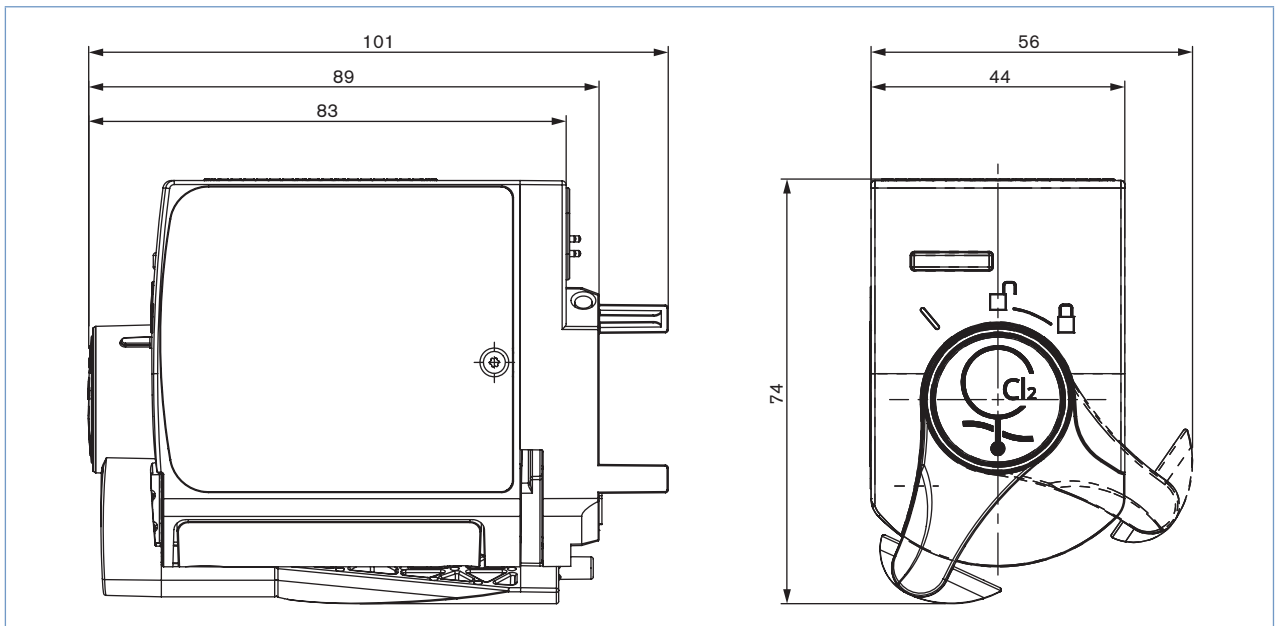
Installation into the Online Analysis System Type 8905

To operate a chlorine 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.



MS02

Dimensions [mm]



Ordering information and chart - chlorine sensor cube

The chlorine sensor cube must be operated within a system.

Please refer to the order information for Online Analysis System Type 8905 [More info.](#) or contact your Bürkert representative.

Description	Item no.
Chlorine sensor cube	564 831

