burkert
FLUID CONTROL SYSTEMS

Manual calibration and cleaning module

- On demand, on-site cleaning or calibration of sensors
- Compliance with individual quality standards and guidelines
- Long-term reliable and exact measurements
- Flexible use allows economical and thus easy on-site quality management

Type MZ15 can be combined with…

Type 8905
Online analysis system

Type MS01
pH sensor cube

Type MS03
Conductivity sensor cube

Type MS04
ORP sensor cube

Type 8920
Communicator

The now completed handy and simple accessory module Type MZ15 enables minor operator interventions in the field for cleaning and recalibrating the sensors and the fluidics in an Online Analysis System Type 8905. Up to now, customers needed very inconvenient manual routines to clean the fluidic part, the measuring chamber and MEMS sensors manually or to calibrate the sensor. This system accessory for the Online Analysis System Type 8905 also extends the flexibility and thus supports economical and time-saving operation. In this context, the manual calibration and cleaning module MZ15 helps to observe the specific individual quality standards in a simple way.

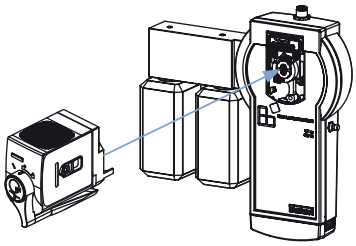
General data	Calibration tool	Cleaning tool
Compatibility	With Type MS01, MS03 or MS04 sensor cube and Type 8905 Online analysis system (see corresponding datasheets)	
Materials		
Housing	ABS	
Screws	Stainless steel, steel passivated	
Fixed connector M12	Zn, CuZn, Au, PA	
Wetted parts materials		
Seal	EPDM	
Others	PA, POM, PPS, silicone	
Electrical connection	M12 male connector (büS)	-
Fluidic connection	Holder for 2 bottles with suction hose	Holder for 1 bottle with suction hose
Type of fluid	Calibration solution	Cleaning solution
Weight (without bottle)	approx. 900 g	approx. 610 g
Environment		
Ambient temperature	+3…+40 °C	
Relative humidity	<90 %, without condensation	
Height above sea level	Max. 2000 m	
Electrical data		
Operating voltage	4 x 1.5 V DC non-rechargeable alkaline (LR6 AA) batteries	
Sensor powering	via connected M12 plug	–
Standard, directives and certification		
Protection class	IP20 (acc. to EN 60529)	
Standard and directives CE	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		
Recognized for US and Canada cULus	UL61010-1 + CAN/CSA-C22.2 No.61010-1 (pending)	

DTS 1000326996 EN Version: B Status: RL (released | freigegeben | validé) printed: 13.03.2018

Design and principle of operation

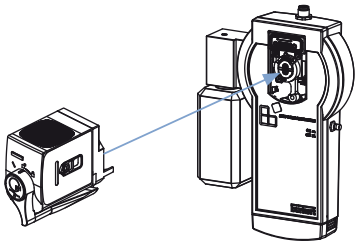
The handheld tool is an accessory designed to clean or calibrate the sensor cubes MS01, MS03 or MS04 for the online analysis system, Type 8905. The sensor cube, to be cleaned or calibrated, must be removed from the backplane of the 8905 system and inserted on the backplane of the portable cleaning or calibration tool.

Handheld calibration tool



The portable calibration tool must be connected to the 8905 online analysis system via a büS connection cable to access the calibration menu of the connected sensor. The portable calibration tool is equipped with a connection bracket, to which two bottles are to be screwed, one containing the calibration solution and the second used to recover the used solution. A pump sucks this solution through a pipe and returns it to the sensor cube. The calibration must be carried out according to the respective instructions of the sensor cube.

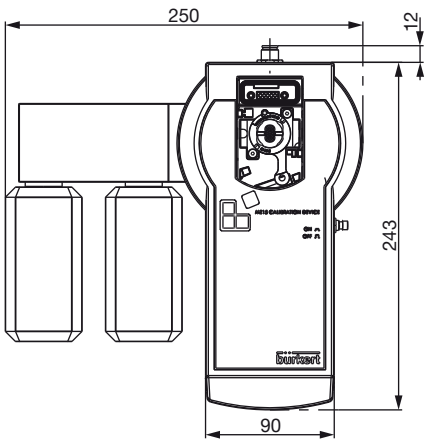
Handheld cleaning tool



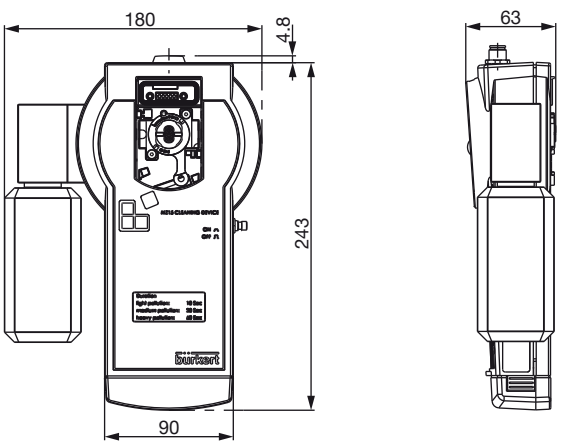
The portable cleaning tool is equipped with a connection bracket, to which a bottle containing the cleaning solution must be screwed. A pump sucks this solution through a pipe and returns it to the sensor cube. The cleaning solution is pumped into the circuit for use and diluted with the residual water sample. The duration of the cleaning cycle, selected manually, depends on the degree of pollution. The cleaning solution can be used up to five times. After a cleaning cycle, a little cleaning solution remains in the sensor cube, which could spread into the on-line analysis system. If the cleaning solution has not been completely removed, the sensor cube must be rinsed with the Bürkert flushing liquid.

Dimensions [mm]

Handheld calibration tool



Handheld cleaning tool



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Ordering chart

Specification	Article no.
Handheld calibration tool	568805
Handheld cleaning tool	568804

Ordering chart - accessories (has to be ordered separately)

Specification	Article no.
Calibration solution pH 5.00 (20 °C), 50 ml	806698
Calibration solution pH 7.00 (20 °C), 50 ml	806699
Calibration solution pH 9.00 (20 °C), 50 ml	806700
Flushing liquid, 50 ml	806709
Flushing liquid, 250 ml	806710
Calibration solution ORP 475 mV, 50 ml	807045
Calibration solution conductivity 5 mS/cm (25 °C), 50 ml	807199
Acidic cleaning solution, 250 ml	807478
Alkaline cleaning solution, 250 ml	807486
büS extension cable, M12 straight cable plug male/female, 1 m	772404
büS extension cable, M12 straight cable plug male/female, 3 m	772405
büS extension cable, M12 straight cable plug male/female, 5 m	772406
büS-Y-splitter	772420
 USB-büS-Interface (see drawing below)	772426

USB-büS-Interface

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Interconnection possibilities with other Bürkert tools

Type 8905 –
Online analysis system

More info.

Type MZ15 –
Handheld calibration tool

Type MZ15 –
Handheld cleaning tool

Type MS01 –
pH sensor cube

More info.

Type MS03 –
Conductivity sensor cube

More info.

Type MS04 –
ORP sensor cube

More info.

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