bürkert
FLUID CONTROL SYSTEMS

Reagent unit

- Module for storing and monitoring the reagents for the fully-automatic operation of the flow injection analysis modules
- Records the reagent level and indicates a required replacement in due time
- Checks the correct reagent type and storage life[1]
- Fully EDIP compatible for easy system integration[1]

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

Can be combined with

Type 8905 ▶
Online Analysis System

Type MS06 ▶
Iron measuring module
- flow injection analysis

Type description

The reagent unit supplies the flow injection analysis within a Type 8905 system with the correct reagents. Up to three reagents are stored in a bottle holder for this.
The device checks whether the correct reagent bottles are inserted. This function is ensured by the integrated barcode reader. The barcode provides additional information on the expiry date.
The operator receives a message if a reagent is faulty. The level is detected through the weight of each bottle. In this case, the operator also receives a message if the reagents need to be topped up.

The reagent unit can be installed in a system housing or attached to the mounting plate in an analysis cabinet.
If an MZ30 without electronics is used, there is no barcode detection. The level is calculated based on the pump function.

1.) Only applies to devices with barcode reader and weight sensors (product with electronics).

powered by
EDIP büS

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1. General technical data

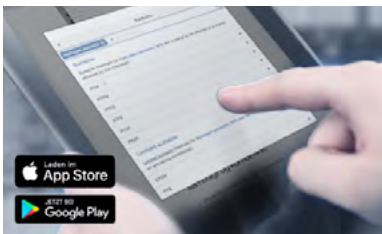| Product properties	
Material	
Please make sure the device materials are compatible with the fluid you are using. Detailed information can be found in chapter "2.1. Chemical Resistance Chart – Bürkert resistApp" on page 4.	
Non wetted parts	
Housing (if applicable)	Polycarbonate
Bottle holder	Powder-coated steel
Hoses	Silicone, Polyurethane
Spiral coiled tube	PE
Wetted parts	
Seals	FKM
Bottles and bottle covers	PE
Hoses	PFA or PE
Waste hose	PFA
Dimensions	Detailed information can be found in chapter "3. Dimensions" on page 4.
Weight	1.42 kg
Measuring principle	Level meter (0…250 ml) and barcode detection[1] (Bürkert specific barcode)
Sensor	Weight sensors factory calibrated, Barcode-scanner[1]
Compatibility	With iron measuring module Type MS06 and Online Analysis System Type 8905 See **data sheet Type MS06** ▶ and **data sheet Type 8905** ▶ for more information.
Performance data	
Measuring range resolution[1]	<1 ml
Measurement deviation[1]	2 ml
Electrical data	
Operating voltage	24 V DC through the backplane of the system Type 8905 via büS
Power consumption	Max. 1.1 W
Media data	
Supplies	Reagent, calibration standard and cleaning solution in 250 ml bottle Detailed information can be found in chapter "7.4. Ordering chart accessories" on page 7 and see also **data sheet Type MS06** ▶ for more information.
Process/Port connection & communication	
Process connection[1]	Tubing (integrated into product)
Electrical connection[1]	M12 connector
Data transfer	
Internal communication	Through büS (Bürkert bus, CAN–Protocole)
Approvals and Certificates	
Standards	
Protection class according to IEC/ EN 60529	• IP65, when installed in the 8905 housing • IP20, as standalone product without housing
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).
Environment and installation	
Ambient temperature	
Operating	+10…+40 °C (+50…+104 °F), 20 °C (68 °F) recommended
Storage and transport	-10…+60 °C (+14…+140 °F), only without reagents
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

1.) Only relevant for devices with bar code readers and weight sensors (product with electronics).

2. Materials

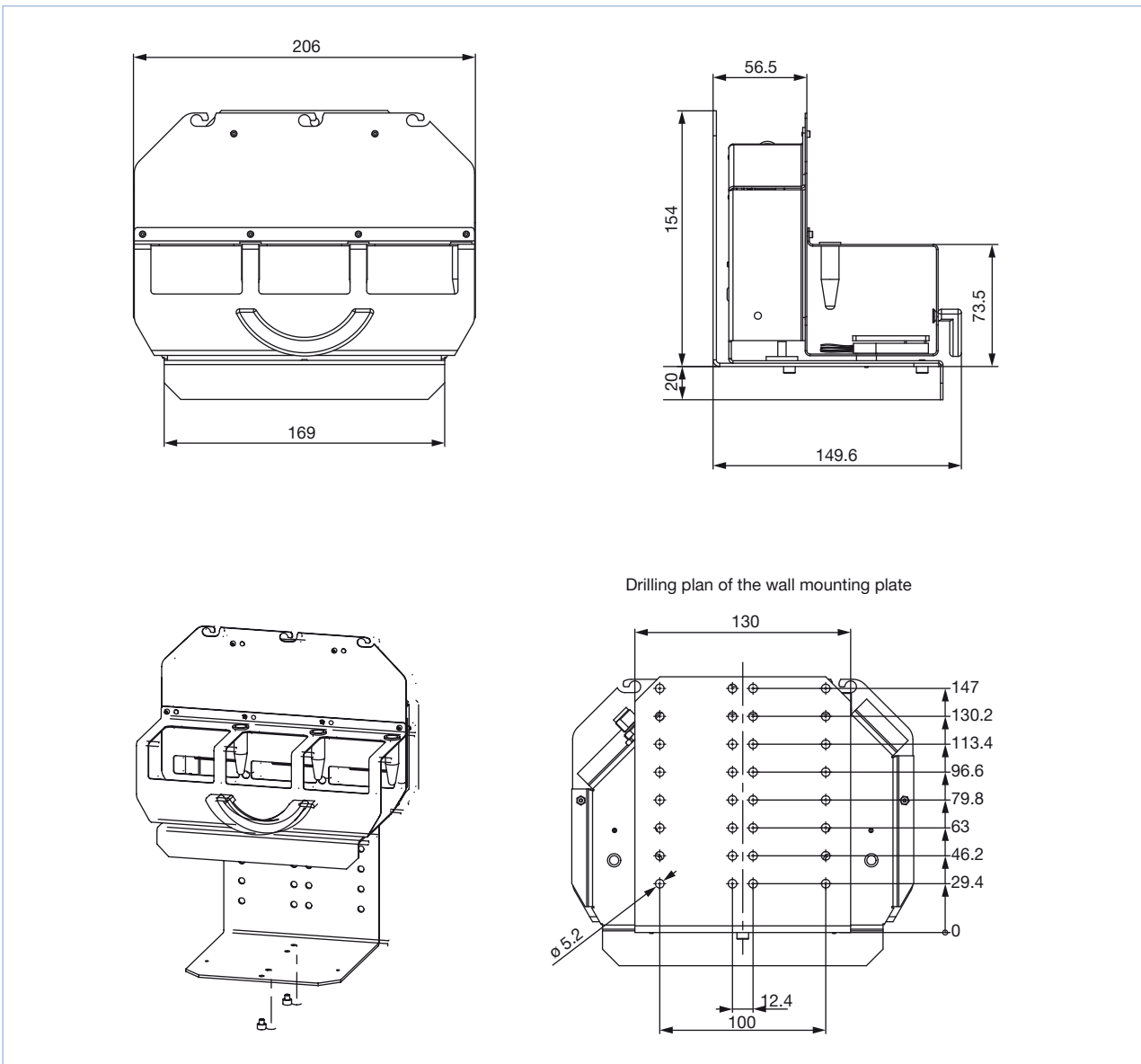### 2.1. Chemical Resistance Chart – Bürkert resistApp

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.
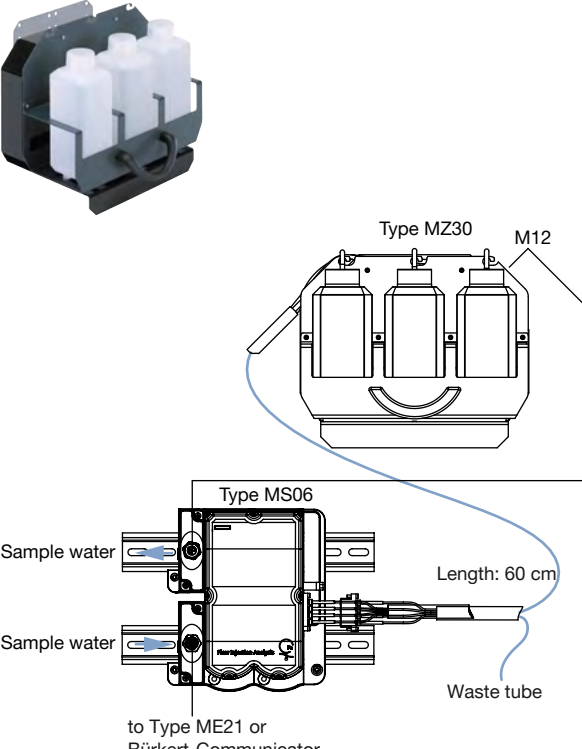
Start Chemical Resistance Check

3. Dimensions

Drilling plan of the wall mounting plate

4. Product installation

Note:
- The device can either be installed in a control cabinet using a wall mounting plate or purchased fully assembled in an IP65 pro-tected housing
- To operate the reagent unit it has to be associated with an injection analysis module MS06 and both together represent a variant of the system Type 8905.

See **data sheet Type 8905** ▸ Online Analysis System, **data sheet Type MZ06** ▸ Iron measuring module for more information.

Installation example	
Product mounted in a housing for the Online analysis system Type 8905 • Reagent unit Type MZ30 + Iron measuring module Type MS06 • Housing iron measuring module Type MS06ype ME21 with HMIU electronics module	**Product without housing mounted on a wall mounting plate which is screwed to the reagent unit from below**

5. Product operation

5.1. Measuring principle

The MZ30 reagent unit is a holder for bottles with supplies (reagent, cleaning agent and calibration standard) to feed the MS06 iron measuring module.
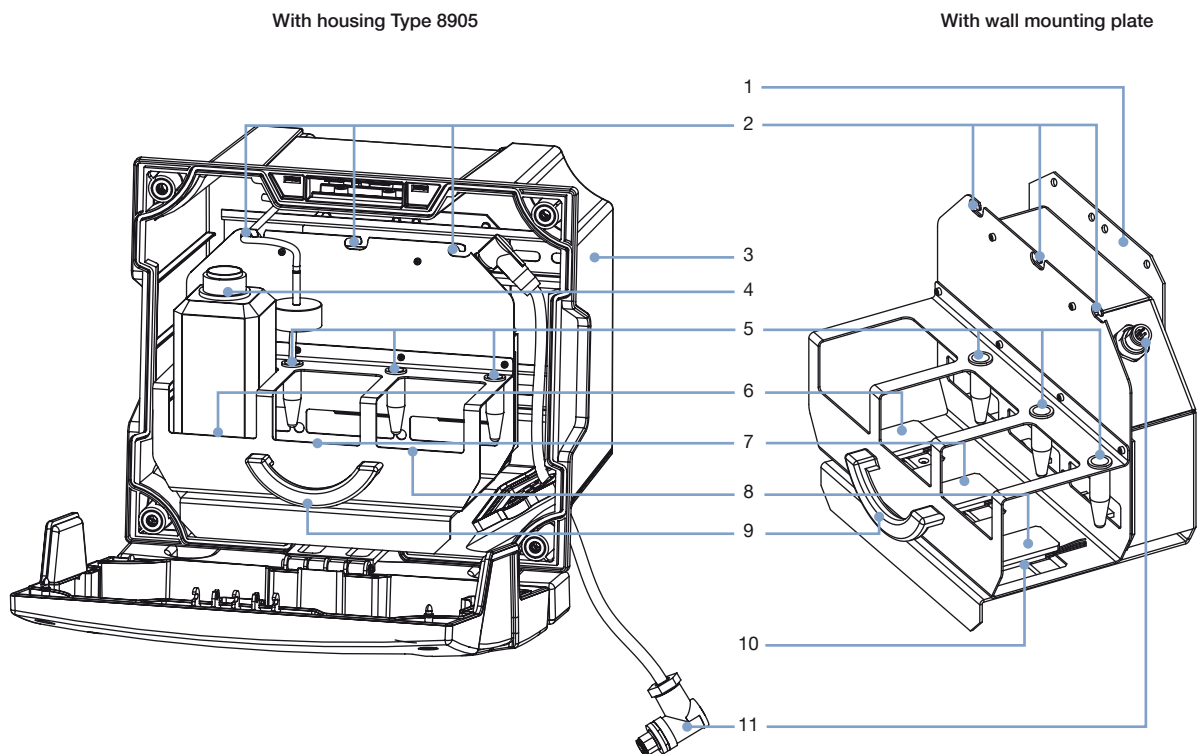
Reagent unit with electronics

The MZ30 reagent unit provides information on level, type, batch and expiry date of the used agents for the MS06.
The MZ30 is connected to the büS-system, the information is so available to the iron measuring module Type MS06 as well as to all other sensor cubes, such as e.g. Display or fieldbus interface.
The level is determined by weight sensors. The information of the reagent is read out from the barcode which is printed on the bottle labels. The reagent bottles are connected to the iron measuring module Type MS06 using connecting hoses with a pre-assembled connector.

Reagent unit without electronics

For the MZ30 without electronics, the filling level is determined via the calculated pump volume. The type, batch and expiry date can then not be determined.

6. Product design and assembly

6.1. Product assembly

With housing Type 8905

With wall mounting plate

No.	Element
1	Wall mounting plate (according to design)
2	Guides for hoses
3	Housing Type 8905 (according to version)
4	Bottle for the supplies
5	Hose holders for the unscrewed tubes
6	Position 1: Reagent
7	Position 2: Cleaning solution
8	Position 3: Calibration solution
9	Handle for pulling out the bottle holder
10	Weight sensors
11	M12 connector to büS (only for MZ30 with electronics)

7. Ordering information

7.1. Bürkert eShop – Easy ordering and quick delivery

Bürkert eShop – Easy ordering and fast delivery

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7.2. Bürkert product filter

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7.3. Ordering chart

Note:
The product must be used with an iron measuring module Type MS06.

See **data sheet Type MS06** ▶ for more information.

Description	Article no.
MS06 combinations for use in Online analysis system, Type 8905	
Reagent unit MZ30 + iron measuring module MS06, for wall-mounting or into control cabinet	567638 🛒
Reagent unit MZ30, mounted in housing + iron measuring module MS06	567637 🛒
Reagent unit MZ30 + iron measuring module MS06, both mounted in Type 8905 housings	567636 🛒
Reagent unit MZ30 (without electronics) + iron measuring module MS06, for wall-mounting or into control cabinet	569063 🛒
Reagent unit MZ30 (without electronics), mounted in housing + iron measuring module MS06	569062 🛒
Reagent unit MZ30 (without electronics) + iron measuring module MS06, both mounted in Type 8905 housings	569061 🛒

7.4. Ordering chart accessories

Description	Article no.
Fe Reagent solution, 250 ml For detailed information, please refer to the safety data sheet; see **Reagent solution data sheet** ▶	807613 🛒
Fe Cleaning solution, 250 ml For detailed information, please refer to the safety data sheet; see **Cleaning solution data sheet** ▶	807614 🛒
Fe Calibration standard solution, 250 ml For detailed information, please refer to the safety data sheet; see **Calibration standard solution data sheet** ▶	807615 🛒

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