



## 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 <sup>1.)</sup>
- Checks the correct reagent type and storage life <sup>1.)</sup>
- Fully EDIP compatible for easy system integration <sup>1.)</sup>

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

### Can be combined with

	<b>Type MS06</b> Flow injection analysis (FIA) sensor cube for iron content	▶
	<b>Type 8905</b> Online water analysis system	▶
	<b>Type 8906</b> Online water analysis system	▶
	<b>Type ME61</b> EDIP process display	▶
	<b>Type ME43</b> Fieldbus gateway	▶
	<b>Type ME63</b> Industrial Ethernet gateway, IP65/IP67/IP69k	▶
	<b>Type ME44</b> I/O module, IP 20	▶
	<b>Type ME66</b> Passive junction box, IP65/IP67/IP69k	▶

### 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 a Type 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).

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## 1. General technical data

### Product properties

#### Material

Make sure the device materials are compatible with the fluid you are using.  
Further information can be found in chapter [“3.1. Bürkert resistApp” on page 4](#).

#### Non-wetted parts

Housing	If applicable Polycarbonate
Bottle holder	Powder-coated steel
Hose	Silicone, Polyurethane
Spiral coiled tube	PE

#### Wetted parts

Seal	FKM
Bottle and bottle cover	PE
Hose	PFA or PE
Waste hose	PFA
Compatibility	With iron measuring module Type MS06 and online water analysis system Type 8905 See <a href="#">data sheet Type MS06</a> ▶ and <a href="#">data sheet Type 8905</a> ▶ for more information.
Dimensions	Further information can be found in chapter <a href="#">“4. Dimensions” on page 4</a> .
Weight	1.42 kg
Measurement technology	Only variant with electronic: level meter (0...250 ml) by weighin and barcode detection <sup>1)</sup> (Bürkert specific barcode)
Type of sensor	Only variant with electronic: weight sensors factory calibrated, barcode-scanner <sup>1)</sup>

### Performance data

Measurement deviation <sup>1)</sup>	2 ml
Measuring range resolution <sup>1)</sup>	< 1 ml

### Electrical data

Operating voltage	24 V DC through the backplane of the system Type 8905 via bÜS
Power consumption	Max. 1.1 W

### Medium data

Supply	Reagent, calibration standard and cleaning solutions in 250 ml bottle Further information can be found in chapter <a href="#">“8.4. Ordering chart accessories” on page 7</a> and in the <a href="#">data sheet Type MS06</a> ▶.
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### Product connections

Process connection <sup>1)</sup>	Tubing (integrated into product)
Electrical connection <sup>1)</sup>	M12 connector

### Data transfer

Internal communication	Via bÜS (Bürkert system bus, CANopen-based) or CANopen
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### Approvals and conformities

#### Directives

CE directive	Further information on the CE directive can be found in chapter <a href="#">“2.2. Standards” on page 4</a> .
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### Environment and installation

Ambient temperature	<ul style="list-style-type: none"> <li>Operating : + 10...+ 40 °C (+ 50...+ 104 °F), 20 °C (68 °F) recommended</li> <li>Storage and transport: - 10...+ 60 °C (+ 14...+ 140 °F), only without reagents</li> </ul>
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.
Degree of protection according to IEC/EN 60529	<ul style="list-style-type: none"> <li>IP65, when installed in the 8905 housing</li> <li>IP20, as standalone product without housing</li> </ul>
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. Approvals and conformities

### 2.1. Conformity

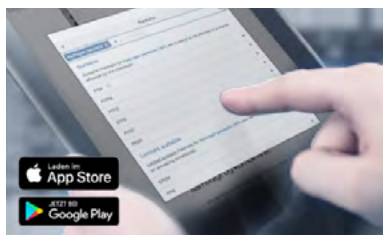
In accordance with the Declaration of Conformity, the product is compliant with the EU Directives.

### 2.2. Standards

The applied standards which are used to demonstrate compliance with the EU Directives are listed in the EU-Type Examination Certificate and/or the EU Declaration of Conformity.

## 3. Materials

### 3.1. Bürkert resistApp



#### Bürkert resistApp – Chemical resistance chart

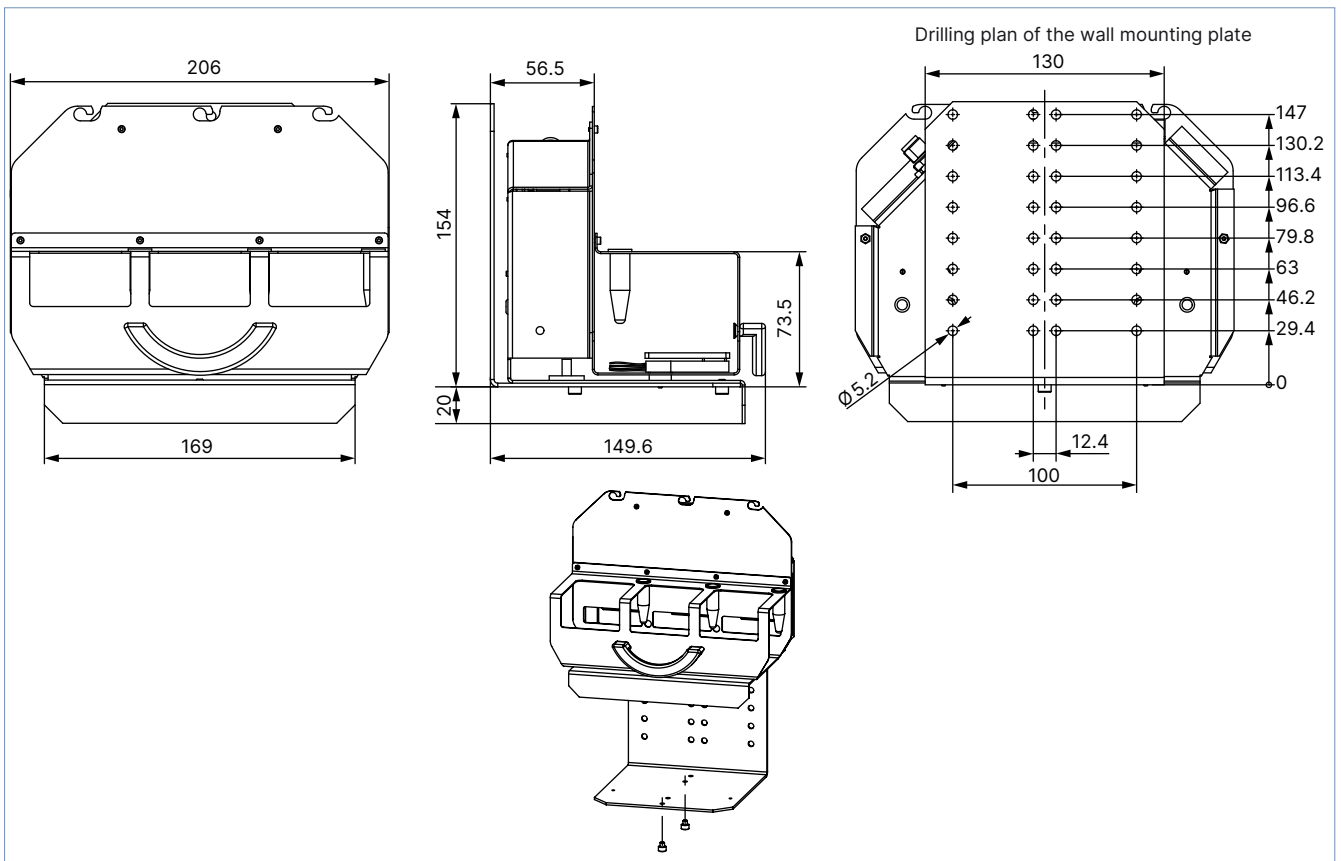
You want to ensure the reliability and durability of the materials in your individual application case? Verify your combination of media and materials on our website or in our resistApp.

[Start chemical resistance check](#)

## 4. Dimensions

### Note:

Dimensions in mm, unless otherwise stated



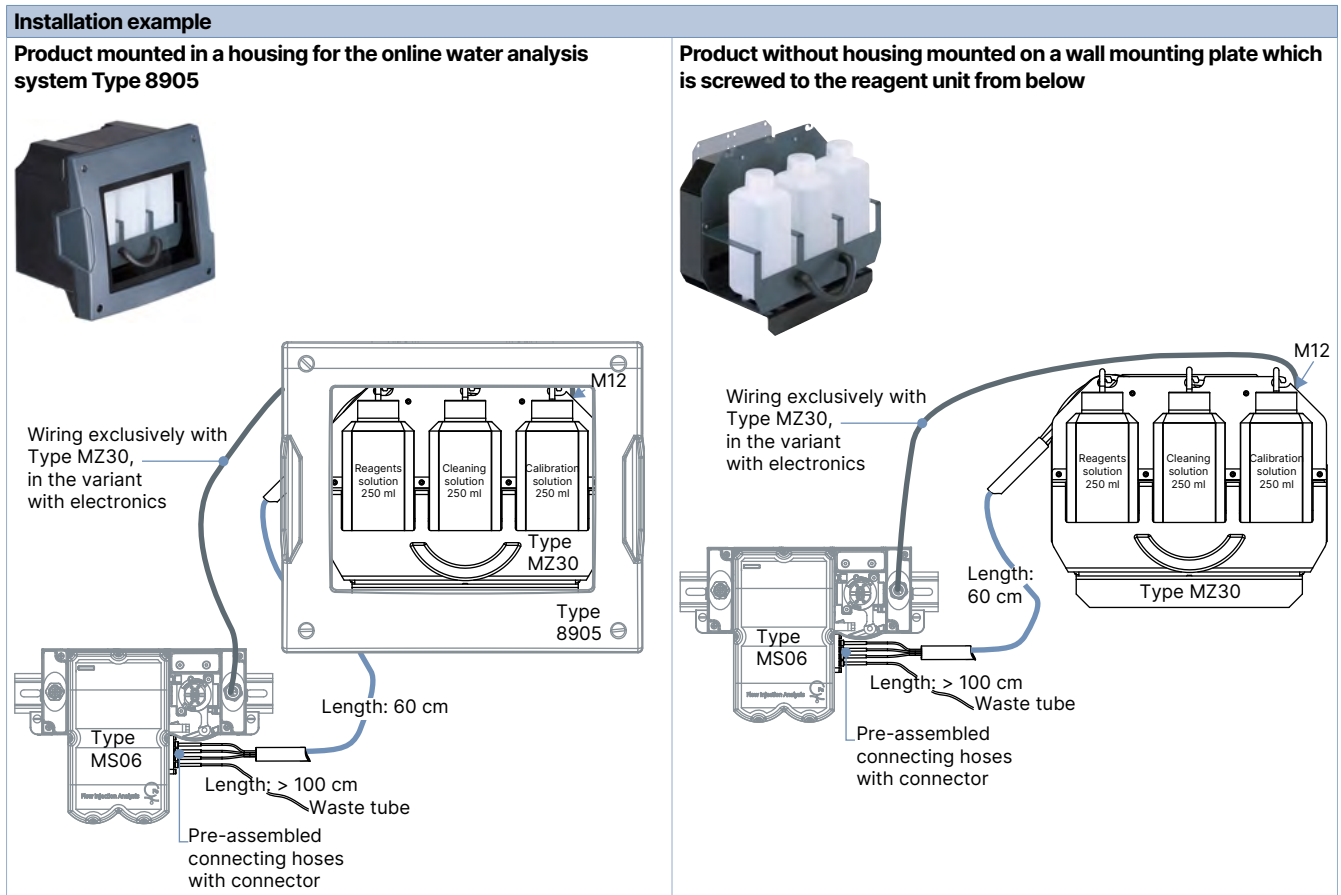
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## 5. Product installation

### 5.1. Installation notes

The device can either be installed in a control cabinet using a wall mounting plate or purchased fully assembled in an IP65 protected housing. To operate, the reagent unit must be associated with the Type MS06 injection analysis module, and both together represent a variant of the Type 8905 system.

See **data sheet Type 8905** ▶ online water analysis system, **data sheet Type MZ06** ▶ Iron measuring module for more information.



## 6. Product operation

### 6.1. Measurement principle

The Type MZ30 reagent unit, available with or without electronics, is a holder for bottles with supplies (reagent, calibration standard and cleaning solutions) to feed the Type MS06 iron measuring module. Pre-assembled connecting hoses with connector, supplied with the Type MZ30, connect the reagent bottles to the Type MS06.

- The Type MZ30 with electronics provides information on the type, fill level and expiration date of the reagents used by Type MS06. The reagent unit, being connected to the bus system, makes the information available to the iron measuring module, as well as to all other modules, such as the display or the fieldbus interface. Only this variant with electronics provides messages and warnings when the expiration date is approaching (barcode reading system). The expiration date of each reagent is indicated on the bottle label. Messages and warnings are also provided for the replacement of each bottle, when the fill level is low (weighing system).
- For Type MZ30 without electronics, the fill level is determined by calculating the pumped volume. The type and expiration date of the reagent cannot be determined.

See **data sheet Type MS06** ▶ Flow injection analysis (FIA) sensor cube for more information.

**Availability and determination method of the solution status**

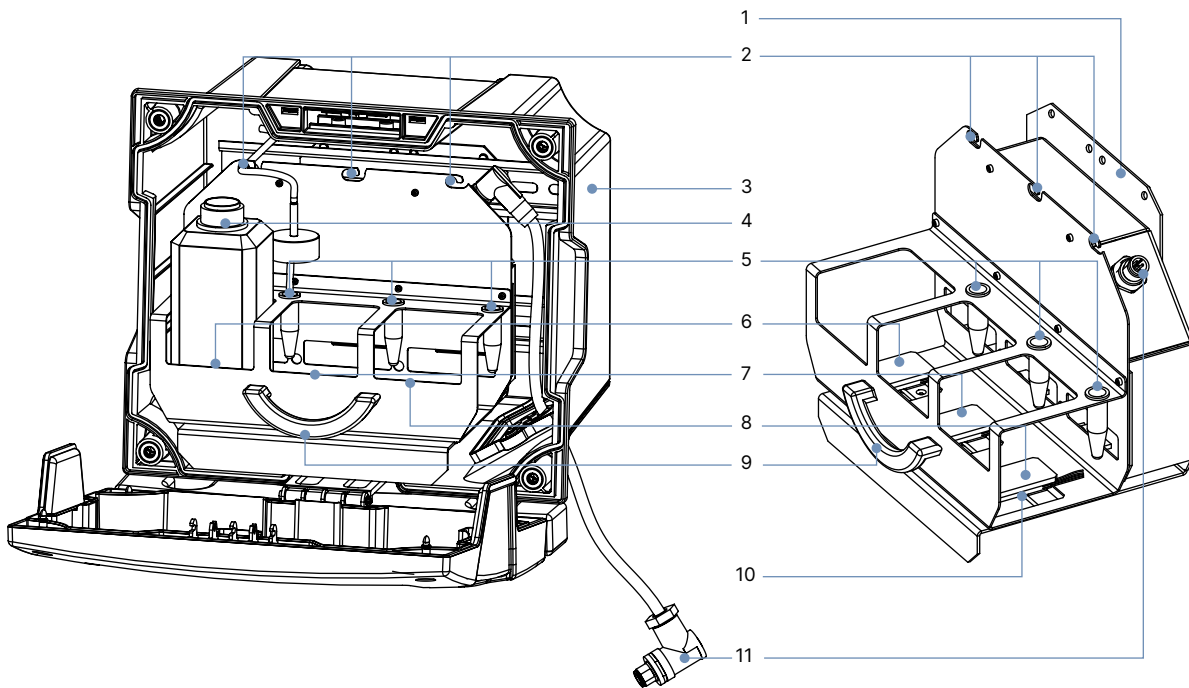
Status of solutions (reagents, calibration and cleaning)	System for measuring iron content	
	Type MS06 + Type MZ30 without electronics for only 250 ml bottles	Type MS06 + Type MZ30 with electronics for only 250 ml bottles
Values of solutions level over the büS (available for gateway, display, ...)	No	Yes
Warning "Low solution levels" (Message + NAMUR color)	Yes, by calculation	Yes, by weighing
Checking "Expiration date" of solutions	No	Yes, by barcode reading
Warning "Solutions date exceeded"	No	Yes, by barcode reading

**7. Product design and assembly**

**7.1. Product assembly**

With housing Type 8905

With wall mounting plate




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

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## 8. Ordering information

### 8.1. Bürkert eShop

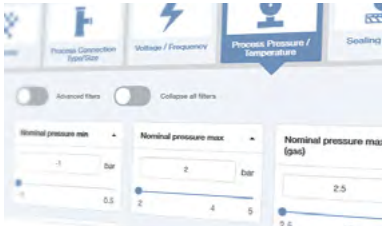


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### 8.2. Bürkert product filter



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### 8.3. 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.
<b>Type MS06 combinations for use in online water analysis system, Type 8905</b>	
Reagent unit Type MZ30 (without electronics) + Dissolved iron measuring module Type MS06, for wall-mounting or into control cabinet	569063
Reagent unit Type MZ30 (with electronics) + Dissolved iron measuring module Type MS06, for wall-mounting or into control cabinet	567638

### 8.4. Ordering chart accessories

Description	Article no.
Fe reagent solution, 250 ml See the <a href="#">safety data sheet of the reagent solution</a> ▶ for more information.	807613
Fe cleaning solution, 250 ml See the <a href="#">safety data sheet of the cleaning solution</a> ▶ for more information.	807614
Fe calibration standard solution, 250 ml See the <a href="#">safety data sheet of the calibration standard solution</a> ▶ for more information.	807615
Hoses set for connection of the iron measuring module to the 3 bottles of 250 ml (reaction, calibration and cleaning) used in the reagent unit Type MZ30, 3 × 60 cm hoses and 1 hose > 100 cm for waste	566998

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