



Installation Manual

b.safe Control Waste Caps

b.safe Control Waste Caps DLC

Cat.-No.:

M 250-30 / M 255-30 / M 256-30

b.safe Control Waste Caps

Cat.-No.:

M 202-40 / M 203-41

M 205-40 / M 205-41

M 206-41 / M 206-42

M 206-60 / M 206-61

M 206-51 / M 208-41

M 209-41 / M 210-41



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Scope of Delivery

Depending on the version, the b.safe Control Waste Cap is supplied with b.safe Fittings, Blind Fittings and Hose Connectors.

Functionality

The b.safe Control Waste Cap is used in combination with the b.safe Mini-Display for reliable visual and acoustic monitoring of fill and empty levels in the laboratory.

Compatibility

Our b.safe Control Waste Cap is compatible with all of our level monitoring devices we offer. The b.safe Mini Display enables the use of our Control Waste Caps with pre-alarm function! Please check individually if you can use filling level monitoring devices of other brands. If filling level monitoring devices of other brands can be used, has to be checked individually.

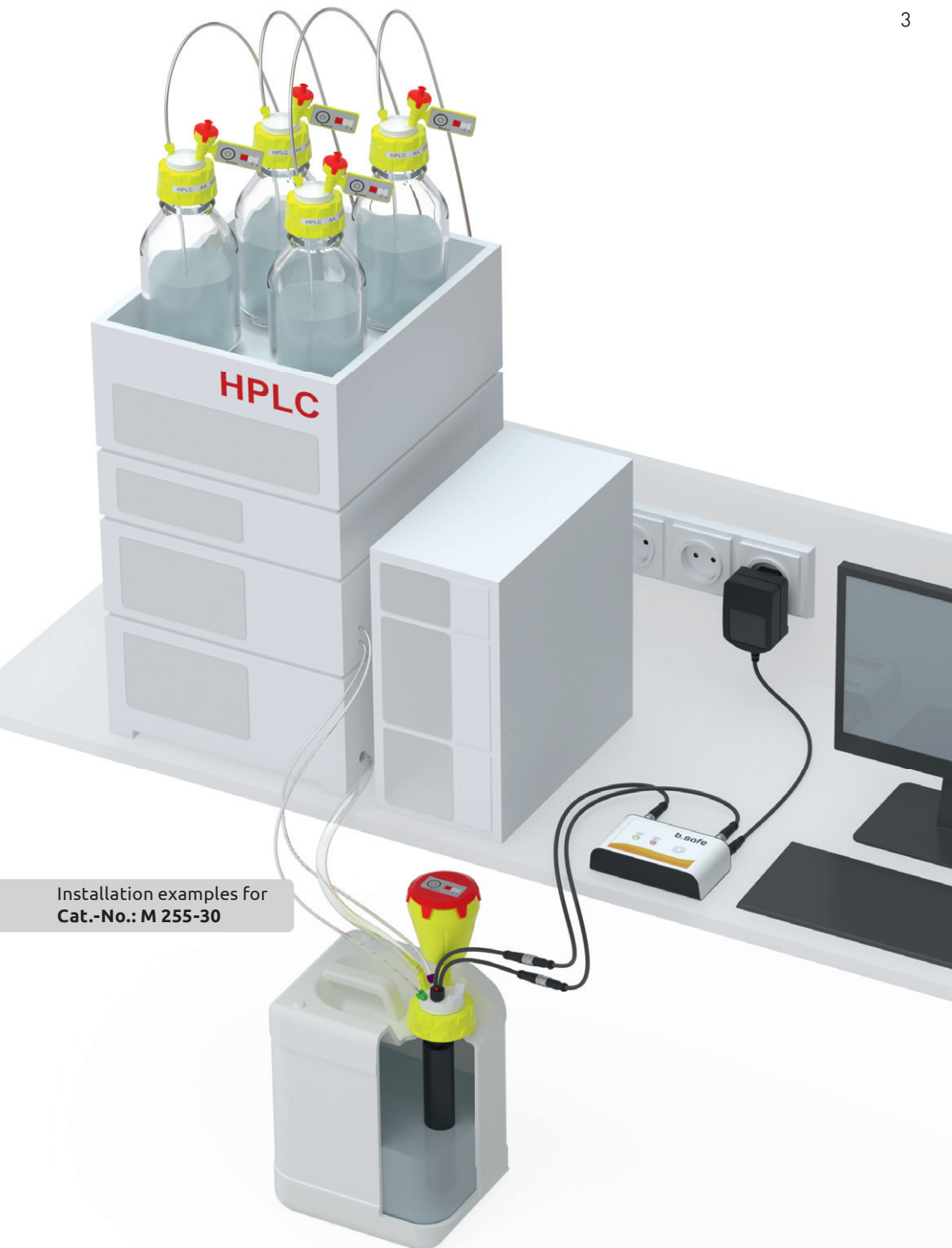
Safety Information

Sensors used in explosion hazardous areas (EX zone) generally have to be secured with an isolated amplifier.
(Cat.No.: R 660-01, R 660-04)

All components that are connected upstream of the sensors, e. g. b.safe Display, b.safe Splitter as well as b.safe Isolated Amplifier, have to be installed outside of the explosion hazardous area.

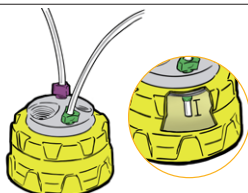
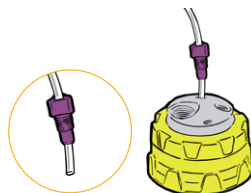
Make sure to use only sensors that are explicitly approved for use in potentially explosive areas.

The installation of electronic components, especially in explosion hazardous areas, must always be carried out by trained specialist staff.



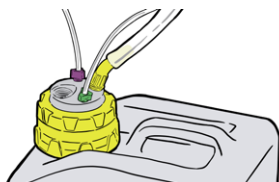
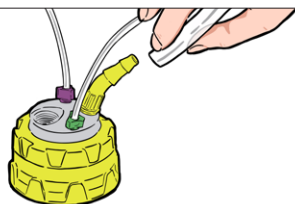
Functional instructions

1. Push the capillaries through a suitable b.safe Fitting and afterwards through the b.safe Waste Cap.



2. Push the capillaries through the b.safe Fittings until their ends protrude on the bottom side of the b.safe Waste Cap for about 10 mm. Tighten the b.safe Fittings.

3. Screw the b.safe Hose Connector into the suitable thread of the b.safe Waste Cap. Push the tubing on the hose connector until it sticks.



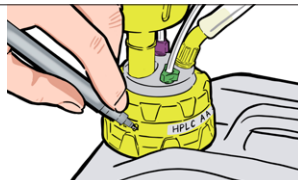
4. Tighten the b-safe Waste Cap onto a suitable canister until the insert does not move freely any longer.

5. Screw a b.safe Exhaust Filter into the free thread connection of the b-safe Waste Cap.



6. Push the button to activate the Service Life Indicator. Optional: Note the exchange date on the back side.

7. Mark the b-safe Waste Cap with a foil pen or an adhesive label if necessary.



Please note

Important: Use b.safe Blind Fittings for gas tight closing of unused openings on a b.safe Waste Cap!

Before using Waste Caps LC/DLC always check if the application of an Isolated Amplifier (Cat. No. R 660-01) is necessary!

Only use b.safe Signal Cables for the connection of Waste Caps LC/DLC and make sure that the plugs are not damaged (first plug and then screw)

Different kinds of connection of Waste Caps LC/DLC are explained in the instruction manuals of our Displays (e.g. Cat. No. R 657-01) or Mini-Displays (e.g. R 659-03).

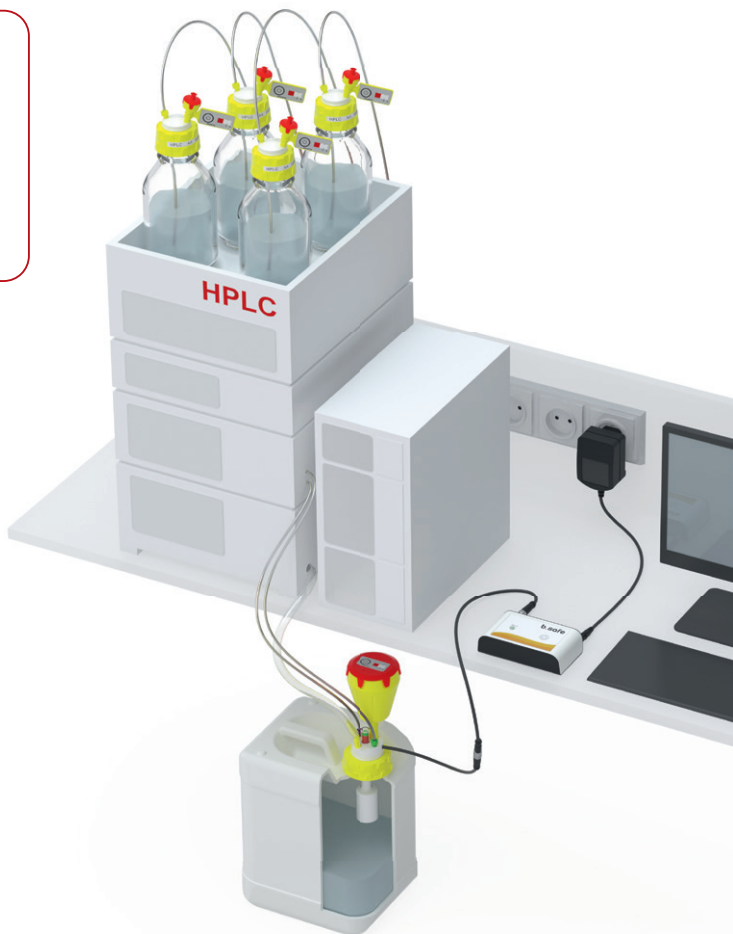
Connection **b.safe Control Waste Caps** with **b.safe Mini-Display**

1. Connect signal cable of the **b.safe Control Waste Caps** with the signal cable of the **b.safe Mini-Display**

Waste Cap Sensor Cable with **Sensor IN**



2. Then plug in the power plug of the Mini-Display and connect the power supply unit to the mains.



CAUTION: Carefully insert the plug and insert the pins into the holes provided! Then screw together.



Connection **b.safe Control Waste Caps DLC** with **b.safe Mini-Display DLC** pre- and main alarm

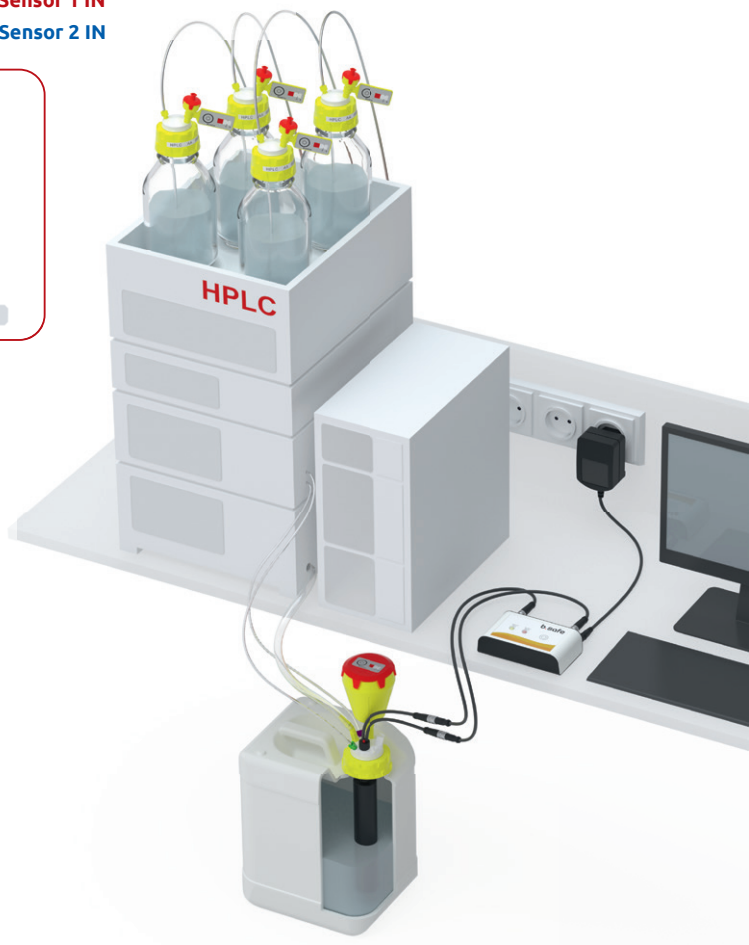
1. Connect signal cable of the **b.safe Control Waste Caps DLC** with the signal cable of the **b.safe Mini-Display**

Waste Cap Cable 1 with **Sensor 1 IN**

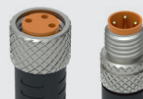
Waste Cap Cable 2 with **Sensor 2 IN**



2. Then plug in the power plug of the Mini-Display and connect the power supply unit to the mains.



CAUTION: Carefully insert the plug and insert the pins into the holes provided! Then screw together.



Cleaning & Maintenance

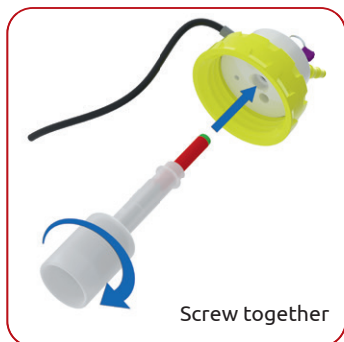
Possible labelling or adhesive residues on b.safe Waste Caps can be removed with isopropyl.

Once the b.safe Service Life Indicator is activated, the white inspection window turns into red with increasing time of use. If the white writing "CHANGE" is completely visible on the red background, the b.safe Exhaust Filter is dead and has to be replaced.

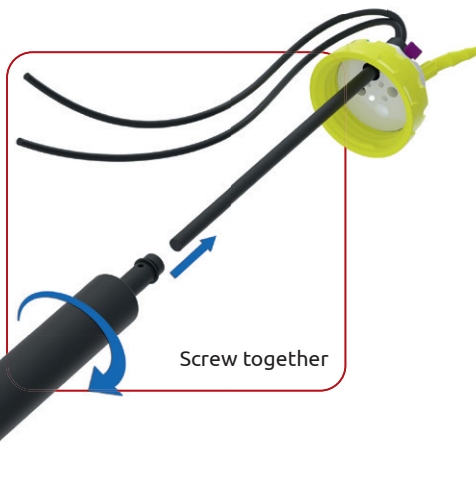
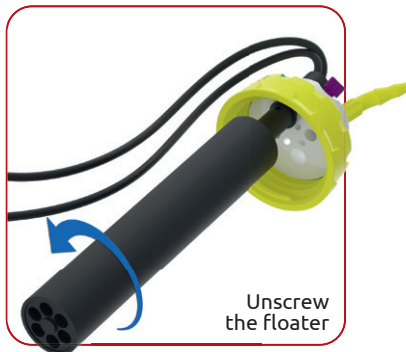
Cleaning

1. Clean the b.safe Waste Caps with a wet cloth and, if applicable, with a rinsing agent and warm water.
Attention: the b.safe Exhaust Filter must not get wet. We recommend to remove it before cleaning
2. Unscrew the floater from the Control Waste Caps regularly and clean it by putting it into warm water (if necessary with rinsing agent). It is enough to flush it with clear water afterwards before mounting it again.
3. Remove the protective glass / the level indicator from the b.safe Control Waste Cap
Attention:
 - Don't immerse the b.safe Control Waste Cap with signal cable into liquids!
 - Clean the b.safe Waste Caps with a wet cloth
 - Do not disassemble the protective glass any further
 - Do not remove the signal cable from the b.safe Control Waste Cap
4. Clean the protective glass / the level indicator in suitable baths (e.g. ultra sonic bath).
5. The protective glass of the b.safe Control Waste Cap can only be cleaned from below! Please use a small brush to get into the glass from below through the cap.
Attention: don't use a metal brush!
6. As soon as all parts are dry, the glass/the level indicator can be screwed into the b.safe Waste Cap again.

b.safe Control Waste Cap



b.safe Control Waste Cap DLC



Consumables & Accessories

b.safe Exhaust Filter

Size	Service life	Packing Unit	Cat.-No.
A Small	3 months	2 pcs.	M 506-01
B Medium	6 months	2 pcs.	M 506-02
C Large	12 months	2 pcs.	M 506-03



b.safe Mini-Display DLC with pre- and main alarm

Version	No. of containers to be monitored	Dimensions	Cat.-No.
A DLC (Wall)	1	85x85x37 mm	R 658-03
B DLC (Table)	1	110x65x30 mm	R 659-03



b.safe Mini-Displays

Version	No. of containers to be monitored	Dimensions	Cat.-No.
Wall	1	85x85x37 mm	R 658-01
Wall	2	85x85x37 mm	R 658-02
Table	1	110x65x30 mm	R 659-01
Table	2	110x65x30 mm	R 659-02



b.safe Signal Cables

Cable length	Connection 1	Connection 2	Cat.-No.
2,0 m	socket	plug	R 645-02
3,0 m	socket	plug	R 645-03
5,0 m	socket	plug	R 645-05
10,0 m	socket	plug	R 645-10



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