

5 COMMISSIONING

After connecting the plug-in power supply to the mains voltage, the LED operating indicator flashes blue and the buzzer emits an intermittent tone (3x).

6 OPERATING

If the valve is functioning properly, the valve is open and the blue LED operating indicator is switched on if no water level is detected.

The sensor detects a water film from approx. 0.5 mm at the sensor position. The valve is switched off and the LED operating indicator changes to the colour red or flashes red 3 times in interval. The buzzer emits an intermittent tone.

Procedures in the event of an alarm:

1. Disconnect the power supply at the plug-in power supply for approx. 5 s (LED operating indicator goes out).
2. Determine the cause of the fault and repair the damage.

Possible causes:

- Water film between the sensor contacts.
 - Water sensor contacts are short-circuited (e.g. Due to contamination, metal piece).
3. Dry/clean the sensor and position it again in a suitable place on the ground.
 4. Provide power supply (LED operating indicator starts to flash).

An automatic switch-off closes the valve briefly several times a day to check the function.

7 MAINTENANCE, TROUBLESHOOTING

7.1 Maintenance



CAUTION!

Water damage due to lack of maintenance!

- Check function annually.

Disconnect the power supply at the plug-in power supply for approx. 5 s (LED operating indicator goes out). Reconnect the mains voltage. After connection to the mains voltage, the LED operating indicator flashes blue and the buzzer emits an intermittent tone (3x). If the valve is functioning properly, the valve is open and the blue LED operating indicator is switched on if no water level is detected.

Checking the protective function:

1. Immerse the water sensor in water.
2. The valve is switched off and the LED operating indicator changes to the colour red or flashes red 3 times in interval. The buzzer emits an intermittent tone.
3. The alarm can be reset by unplugging the plug-in power supply and drying the sensor.

7.2 Troubleshooting

The LED operating indicator flashes red in the event of a fault. The cause of the fault is indicated by a flashing code.
1 time in interval: Break in the sensor cable
2 times in interval: Malfunction of the switching function



CAUTION!

In this case, the valve no longer switches off reliably.

Disconnect the power supply at the plug-in power supply for approx. 5 s (LED operating indicator goes out).

Check

- the power supply
- the operating pressure
- the pipe connections and flow direction and put the valve back into operation.

If the valve still does not work properly, please contact Staiger GmbH.

8 TRANSPORT, DISPOSAL

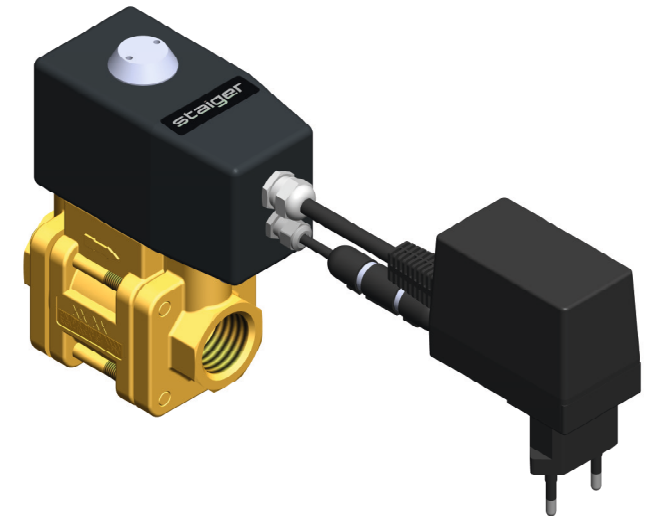
Transport damage!

Inadequately protected devices may be damaged during transport.

- Transport the device protected from moisture and dirt in shock-proof packaging.

Environmental damage from device parts.

- Dispose of the device in an environmentally friendly manner.
- Comply with applicable disposal regulations and environmental regulations.



Instructions for Use Water Guard

**MW 252-002, MW 262-003, MW 272-002,
MW 202-001, MW 202-002, MW 202-003**
with plug-in power supply

Staiger GmbH & Co. KG

Johannes-Bieg-Straße 8, D-74391 Erligheim
Phone: +49 (0) 7143 2707-0, Fax: +49 (0) 7143 2707-88
sales@staiger.de www.staiger.de

1 OPERATING INSTRUCTIONS

These operating instructions describe the entire life cycle of the water guard. Keep these instructions in a readily accessible place for all users. Before using this product, the operating instructions must be read and understood. The operating instructions contain important information on safety! Failure to follow these instructions can lead to dangerous situations.

2 INTENDED USE

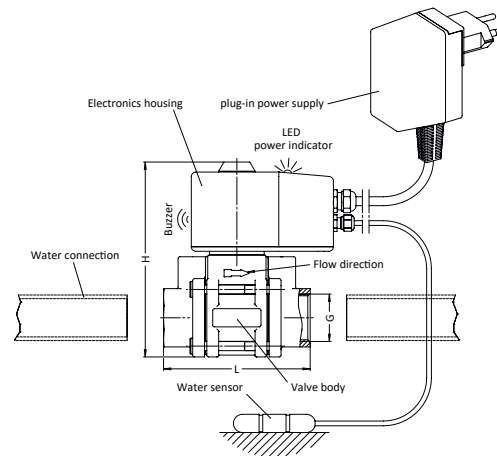
The water guard offers reliable protection against water damage by monitoring the water supply to laboratory equipment and household appliances. A water leak is detected by a sensor and the water supply is interrupted. At the same time, the LED operating indicator and a buzzer draw attention to the damage.

CAUTION!

- The water guard must not be used for thermal safety devices. If the power supply is interrupted, the device shuts off the water supply.
- The water guard must not be used in potentially explosive areas.
- The water guard must not be used with demineralised water.
- The water guard may only be used indoors.
- An automatic switch-off closes the valve briefly several times a day.
- No internal or external modifications may be made to the water guard.
- Only trained specialists are allowed to carry out installation and maintenance work.
- The water guard may only be operated if it is in perfect condition and in compliance with the instructions for use.

3 TECHNICAL DATA

Electrical connections:	Plug-in power supply CEE 7/16
Operating voltage:	100-240 VAC; 50-60 Hz
Power consumption:	1.9 W
Max. power consumption:	8 W
Automatic closing impulse:	3 times a day 1 s
Protection class DIN EN 60529:	IP 42
<hr/>	
Nominal pressure:	0.5 to 10 bar
Media:	Water; neutral, electrically conductive liquids
Ambient temperature:	0 °C to + 50 °C
Medium temperature:	0 °C to + 50 °C
<hr/>	
Housing material:	Brass, polyamide
Internal parts:	Brass, stainless steel



Type MW	NW [mm]	kv value [m³/h]	Connection [G]	Installation length (L) [mm]	Height (H) [mm]	Width [mm]
252-002	15	5.6	G1/2	67	108	43
262-003	20	7.6	G3/4	80	108	43
272-002	25	16.8	G1	94	124	59
202-001	32	21.0	G1 1/4	112	124	59
202-002	40	29.5	G1 1/2	132	151	87
202-003	50	35.0	G2	160	151	87

The water guards meet the requirements of the EU Directives relevant to the product.



4 INSTALLATION

DANGER!

Risk of injury from electrical voltage!

- Disconnect power supply before installation.
- The electronics housing must not get wet.

CAUTION!

Water damage due to improper installation!

- Pay attention to the type of media connections mentioned in the operating instructions.
- Pay attention to the direction of flow when connecting.

Installation requirement: Filtered water supply network

Installation position: Electronics housing pointing vertically upwards

Install the water guard in a place where you can notice possible fault messages promptly.

Procedure:

1. Disconnect the power supply at the plug-in power supply and interrupt the water supply.
2. Remove the existing water connection.
3. Screw the valve body into the water pipeline.
4. Provide water and check for leaks.
5. Provide power supply (see commissioning).
6. Check protective function (see maintenance).
7. Place the water sensor in a suitable position horizontally on the ground.

NOTICE!

In case of incorrect installation, any liability of the manufacturer ceases to apply and the warranty on devices and accessories is voided likewise.