



## Installation and operating instructions

AUM (AUK).B - Automatic sink tap with the possibility of connection to one or two water lines, with a thermostatic valve or with a pressureless heater and battery supply

### BASIC TECHNICAL DATA

Range of the sensor:	is set automatically
Power supply voltage:	6V DC
Adjustable overrun time:	0–4 s (1s time is set by the manufacturer)
Start/Stop mode period of opening:	5–100 s by 5 s (15 s period is set by the manufacturer)
Water pressure:	0.2–0.8 Mpa
Diameter of the sink installation aperture:	min. 33 mm, max. 38 mm
Recommended power supply source:	4 pcs of 1.5 V AA-size alkaline batteries life of the batteries is approximately 1.5 years
Connecting dimensions of the flow water heater:	3/8" (only in case of E variant taps)

### Automatic tap mode

- After you put your hands into the sink (into the sensing zone under the spout) the control electronics will activate itself, which is indicated by the LED on the sensor head blinking twice. The electromagnetic valve then opens immediately. After removing your hands from the sink the LED will blink again and the electromagnetic valve will close and water will stop flowing after the preset delay. If shading is permanent, the valve will stop the water flow after 30 s. The electronics ensures that the electromagnetic valve will not open the water tap without the batteries having sufficient capacity for subsequent closing.

### Start/Stop mode

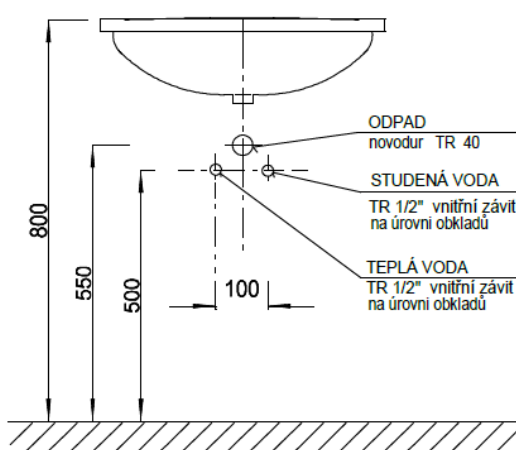
- When the sensor gets shaded for a short time (for at least 0.5 s), the control electronics will activate and the electromagnetic valve will open immediately. If the sensor is shaded again, the electromagnetic valve will close and water stops flowing. If the sensor does not get shaded, water will stop flowing automatically after elapsing of the preset time (the period of opening).

### Switching from the Automatic Tap mode to the Start/Stop mode

- Take out one battery from the holder and wait for approximately 10 minutes until the capacitor of the electronics is discharged (instead of waiting for 10 minutes it is possible to short-circuit the contacts on the holder of the batteries and thus discharge the capacitors of the electronics). After that aim the remote control at the sensor within the spout, hold the "DOSAH" (RANGE) button and insert the missing battery into the holder. The LED will blink and afterwards it will blink 6 times, thus confirming the Start/Stop mode. Release the range button to the "DO"(UP TO) position—sensitivity then gets adjusted automatically, which is indicated by the LED blinking quickly. During the course of adjustment it is necessary to leave the space in front of the sensor empty. If there is any obstacle in front of the sink tap during the adjustment, too short range will be set after the obstacle is removed (the range is automatically set according to this obstacle). In this case it is necessary to take out and insert the batteries (so that the capacitor can get discharged) —the sensitivity gets automatically adjusted again. (By following the same procedure it is possible to switch from the Start/Stop mode into the automatic tap mode with the range reaching under the spout, with the only difference being that after switching the modes the LED will blink 5 times).



## Installation of the automatic tap



OUTLET
PVC Pipe 40
COLD WATER
Pipe 1/2" inner thread at the facing level
HOT WATER
Pipe 1/2" inner thread at the facing level

### Installation readiness

1. Finished water distribution ending with 1/2" inner thread according to the figure (when only one-water connection is intended, there will be only one water inlet).
2. The water inlet leading to the tap or the group of taps must be equipped with **a filter** for removing mechanical impurities from water.
3. When using an electrical water heater a socket meeting all requirements (location, fusing, the RCD.....) of the respective standard must be prepared.
4. The sink ceramics including the outlet must be in place. The hole in the sink intended for placing the tap must be situated so that the horizontal area in front of the tap is as small as possible (the more slanting the tap is, the smaller must be the area). When using a non-ceramic sink (e.g. a stainless polished one), the beam may be reflected from the front edge of the sink and the device may not function properly. The electronics uses the principle of sensing the infrared beam reflected from the hands. When fitting the tap on a very glossy surface or when a horizontal area in front of the tap is too large, the manufacturer does not guarantee that the device will work correctly—the infrared beam is reflected from this surface.

### Assembly

1. If the sink tap includes a washer, it is necessary to pull the electronics through this washer first. Pull the electronics through the hole in the sink, fit the tap, secure it from below using the clamp, the rubber washer and the nuts—do not tighten, screw in the second short hose (if it is included), settle the tap properly and properly tighten the nuts. If the tap does not rest evenly on the surface of the ceramics (the surface of the ceramics is uneven), it is necessary to seal up the tap with the silicone putty in order to prevent water from getting under the tap.
2. Screw the electromagnetic valves with connecting hoses (300 mm) on the short hoses (the direction of water flow is indicated by an arrow on the body of the valve). Short hoses are replaced with the small plastic hose with the diameter of 6 mm in case of some types—this hose may be shortened if needed (it must be cut perpendicularly—do not use the cutting pliers). This hose is connected to the quick coupling by mere pushing. When taking out the hose it is necessary to hold the upper ring and take out the hose. Screw the angle valves with the filter into the water inlet—**when using angle valves without filters the electromagnetic valve may get jammed due to impurities in water**. Orient the outlets of the angle valves so that the hoses are not broken.
3. Properly rinse the piping and clean the filters of the angle valves. Connect the hoses to the angle valves. If the tap is equipped with a thermostat, the hot water connection must be connected to the red marked hose and the cold water connection must be connected to the blue marked hose. If connected the other way around, the thermostatic valve will not work.  
Put the holder for the electronics on one of the short hoses (as close to the sink as possible) and hang up the electronics onto the holder so that cable connections are oriented downwards. **Operating the electronics in a different position is prohibited—there is a danger for the electronics of being washed out.**



4. Plug the connectors of the connecting conductors to the contacts of the electromagnetic valves (the cable with the red strip must be plugged onto the + pin of the valve).
5. Put the housing containing the electronics and the housing containing the batteries on the short hose (as close to the sink as possible) so that cable connections are oriented downwards. Operating the electronics in a different position is prohibited due to the danger of washout.
6. Remove all objects in front of the sensors in the spout and **insert alkaline batteries into the housing**. Check that the batteries are connected! Within approximately 15 s the sensitivity of the tap will be set. **During the course of automatic setting of the sensitivity no obstacle may be placed in front of the tap.**
7. Set the water flow rate and the temperature of the flowing water according to the actual variant of the tap (using the angle valves, the ring on the tap....). If the temperature of the flowing water is set by the thermostatic valve, it is necessary to regulate the water flow rate only past this valve. It is therefore not possible to adjust the water flow rate using the angle valves –the water flow would change with the change of the temperature.

#### Notice

- the automatic sink tap may only be connected to the DC voltage of 6 V (4 pcs of 1.5 V AA-size alkaline batteries), otherwise the manufacturer does not provide the warranty for reliable functioning and does not bear responsibility for eventual damage inflicted due to connection to different voltage.
- When changing batteries use **only new** alkaline batteries and do not mix old batteries with new ones. After inserting batteries with the voltage lower than 5.7 V the electronics will not work.
- When the voltage drops below the critical limit, the LED will start blinking and keeps blinking until the complete discharging.
- **It is not possible to use accumulator batteries with the voltage of 1.2 V –the electronics does not work due to low voltage!**

#### The clue and supplied parts

- |   |         |  |         |
|---|---------|--|---------|
| • 1—the sink tap, incl. the fixing material | 1 pc    | 8— the thermostatic valve              | 0–1 pc  |
| • 2—the sink - is not part of the delivery  |         | or the mixing T-piece                  |         |
| • 3—the short hose with the M10x1 thread    | 1–2 pcs | 9— the ball valve                      | 0–1 pc  |
| • 4—the housing for the electronics         | 1 pc    | 10—the sealing with the sifter         | 1–2 pcs |
| • 5—the electromagnetic valve               | 1–2 pcs | 11—the reduced T-piece 1/4" x 3/8"     | 0–1 pc  |
| • 6—the long hose                           | 1–2 pcs | 12—the long hose with the M10x1 thread | 0–1 pc  |
| • 7—the angle valve with the filter         | 1–2 pcs | 13—the casing for 4 alkaline batteries | 1 pc    |

#### Possible malfunctions and troubleshooting

Malfunction	Likely cause	Troubleshooting
The LED does not blink at all after inserting batteries	Conversely inserted batteries or poor contact	Insert the batteries correctly—check the contact on the casing containing the batteries
Too little water is flowing	Clogged filter	Clean the filter of the angle valve
Water is not flowing	The zero water flow rate is set	Set the appropriate water flow rate
The LED blinks twice when approaching it, water is not flowing It blinks once when removing hands from the area, water is flowing	Reversed polarity of the cables on the electromagnetic valve	Reverse the polarity of the cables on the electromagnetic valve



It is not possible to set the water temperature on the tap with the thermostatic valve	The hoses for hot and cold water connected conversely	Connect correctly
Water flows continuously—the electronics works correctly	Impurities in the electromagnetic valve	Clean the valve
Too short range—it is necessary to put your hands very close to the tap	Some object was placed in front of the tap during setting the range—the range was set for the distance of the object	Take out the batteries, wait for approximately 10 min. (or short-circuit connections leading from the casing) and again set the range
The LED is blinking continuously, water does not flow	Low voltage—partially discharged batteries, the valve stops opening at 4.5 V—closing works properly	Replace batteries

## Maintenance and cleaning:

- The device was made from the stainless steel of quality corresponding with ČSN 17 240 (AISI 304) standard and, therefore, it must not be operated in chemically-aggressive environment and
- **Preparations containing chlorine must not be used for its cleaning!!**
- Cleaning agents by WÜRTH are recommended:
  - Metal renewal agent - Order No. 893 121 1
  - Stainless steel spray treatment - Order No. 0893 121 – K.
- If corrosion has already occurred, it can be removed with a cleaner INNOSOFT B 570 from the company Emergo.

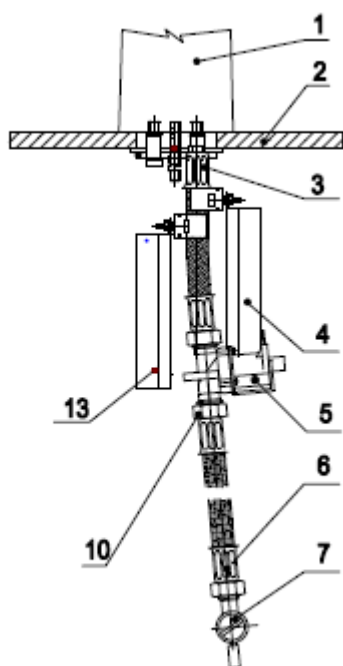
## Cleaning the valve

- Unscrew the three screws holding the coil. Remove the coil, cautiously take out the plastic cover of the core (beware of losing the spring). Take out the membrane, clean the space underneath it. Check the patency of both holes in the plastic centre of the membrane and reassemble the valve. When reassembling the valve it is necessary to comply with the direction of the water flow—indicated by an arrow on the valve—and with the power supply polarity. The black wire onto - pole and the red wire onto + pole. The valve works by pulses, it is open by a 20 ms long pulse and it is closed by an identical pulse with reversed polarity. Since after assembling the valve it can be in the open state and water would flow continuously, it is necessary to perform the flushing cycle without the water flowing in order to ensure that the valve closes.

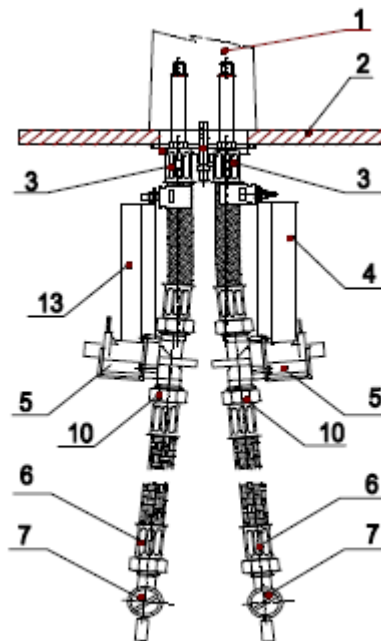


## Schematic view of the connection of the sink taps

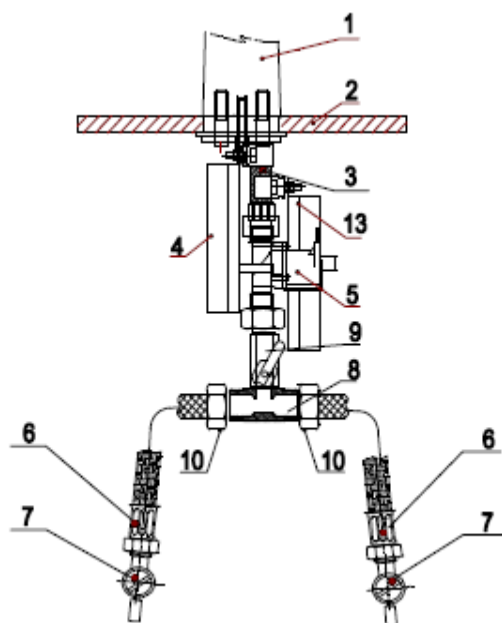
For one water



For two waters with the temperature regulation on the tap



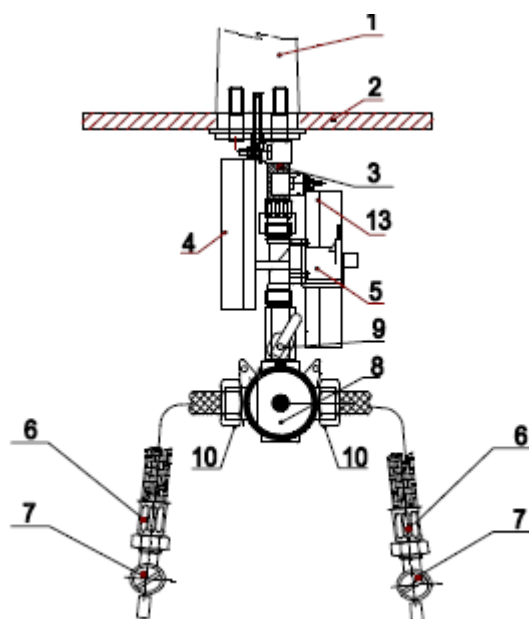
two waters  
with a concealed mixing T-piece



For two waters

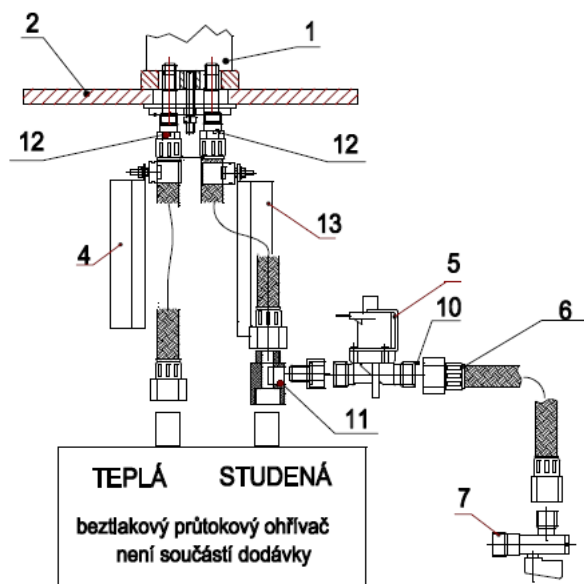
For

with a concealed thermostatic valve





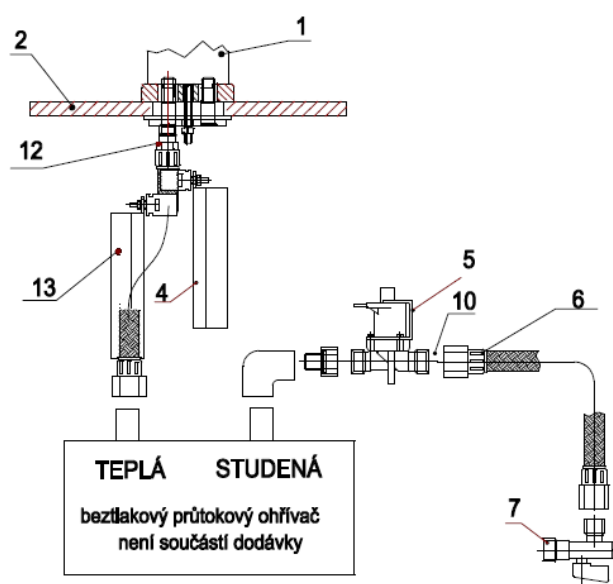
With the flow heater  
and the temperature regulation on the tap



HOT COLD

Pressureless flow heater  
is not included in the delivery

With the flow heater  
without the temperature regulation



HOT COLD

Pressureless flow heater  
is not included in the delivery