



Installation and operating instructions

AUM (AUK) - Automatic basin taps with the possibility of connection to one or two water lines, with a thermostatic valve or with a pressureless heater

BASIC TECHNICAL DATA

Sensor range:	is set automatically
Supply voltage:	12 V, 50 Hz
Input:	6 VA (with one electromagnetic valve) 10 VA (with two electromagnetic valves)
Adjustable rundown time:	0 ÷ 4 s (1 s set by manufacturer) 5 ÷ 100 s in the Start/Stop mode – set to 15 s
Water pressure:	0.1 – 1.0 MPa
Diameter of mounting hole in washbasin:	Min. 33 mm, max. 38 mm
Recommended source of supply:	ZAC 1/20 or ZAC 1/50, ZAC 1/36L
Connecting dimensions of tankless heater:	3/8" (only for taps with the E design)

Description and functions of the automatic washbasin tap

- AUM is an automatic washbasin tap to be connected to one water (cold or preheated), two waters (hot and cold) or to two waters with temperature regulation by thermostatic valve. The thermostatic valve is either fixed under the washbasin (the operator sets water temperature and the user cannot change it) or it is integrated in the outlet arm (the user can adjust the temperature of running water).
- By placing hands to the washbasin (to reading zone under the outlet arm) control electronics is activated which is indicated by blinking light on the sensor. The electromagnetic valves immediately open. When hands are pulled away from the washbasin, the light turns off, the electromagnetic valves close after the rundown time and water is stopped. If the sensors are permanently blocked, the valves close water after 30 s.

Start/Stop function

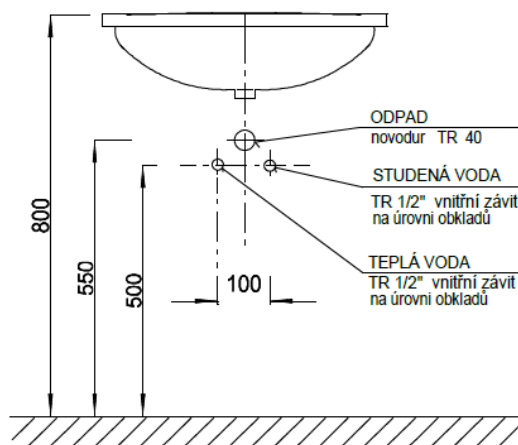
- If the sensor is blocked for short time (at least 0.5 s), control electronics is activated and the electromagnetic valve immediately opens. After repeated blocking of the sensor, the electromagnetic valve closes and stops the water. If the sensor is not blocked again, the water stops automatically after the set time interval (time of opening) expires.

Switching from Automatic Tap to Start/Stop mode

- Switch off the supply voltage. Then direct remote controller to the sensor in the arm, hold the DOSAH (RANGE) button pressed and switch the supply voltage on. The indicator light quickly blinks and then blinks 6 times which confirms the Start/Stop mode. Release the range button to DO – the sensibility automatically adjusts which is indicating by quick blinking of the light. The area in front of the sensor must remain empty in course of the setting. If there is an obstacle in front of the tap when it is being set, the range will be low after the obstacle is removed (the range is automatically set according to the obstacle). In such case supply voltage must be switched off and on again – the sensibility is again automatically set. (Same procedure is used when switching the Start/Stop mode to Automatic Tap with the range under the arm. The only difference is that the light blinks 5 times).



Installation of the automatic tap



Electricity supply

Cable CYKY 2Ax1,5

Outlet

Plastic pipe 40

Cold or Mixed Water

Pipe 1/2" female thread on level of tiling

Construction preliminaries before mounting

1. Provide the water main terminated by 1/2" female thread according to the picture (when connecting to one water, only one water intake will be provided).
2. In water intake to the tap or group of taps a filter must be installed to collect solid impurities from water.
3. Provide connection by 12 V, 50 Hz cable CYKY 2A x

1.5 from a ZAC source. If electrical water heater is used a socket meeting all requirements of the standard must be prepared (location, circuit breaker, current protection...)

4. The washbasin ceramics including the drainage must be installed. In the case that other type of washbasin is used (e.g. from polished stainless steel), the ray may reflect from the front side of the washbasin and the device might not work. The electronics works on the principle of an infrared ray reflected from hands. If installed on a highly polished surface, the manufacturer does not guarantee proper functioning of the device – the infrared ray reflects from the polished surface.

Assembly

1. If the washbasin tap contains a pad, the electronics has to be pulled through the pad first. Pull the electronics through the hole in the washbasin, install the tap, secure it from the bottom by a clamp, rubber pad and nuts – do not screw tight, screw on another short hose (if included), straighten the tap and screw the nuts tightly. If the tap does not sit flat on the ceramics (the ceramics is not flat), the tap has to be sealed by silicon sealant to prevent leakage under the tap.
2. Screw the electromagnetic valves (the direction of water flow is shown by an arrow on the valve body) with connecting hoses (300 mm) onto the short hoses. For some types of taps short hoses are replaced by plastic tubes with 6 mm diameter – the tube may be cut short as required (cut it perpendicularly – do not use pincers). The tube shall be connected to rapid coupling by pure pushing. When removing the tube, top ring must be held and the tube slid out.
Screw angle valves with filters to water intake – **if angle valves without filters are used, the electromagnetic valve may get stuck due to impurities contained in water.**
Turn the outlets of angle valves as to avoid breaking of the hose.
3. Rinse impurities out of the piping and clean filters of angle valves. Connect hoses to angle valves. If the tap is equipped by a thermostat, hot water must be connected to the hose marked in red and cold water to the hose marked in blue. If connected the other way round, the thermostatic valve will not work.
Place the electronics holder on one of the short hoses (the nearest to the washbasin) and fix the electronics in it so that the cable outlets are directed downwards. **To operate the electronics in a different position is forbidden – danger of flooding.**
4. Put connectors of connecting conductors on the electromagnetic valve contacts – regardless of the polarity; the valves are supplied by alternating voltage.
5. Connect the supply cable right above the drainage to terminal box of the electronics supply cable. After the mounting cover the terminal box by a drainage cover.



6. Switch the supply voltage on (ZAC source). After it is switched on, the indicator light slowly blinks five times; then it starts to blink five times per second and it stops for approx. 0.5 s. The cycle repeats until the automatic setting is finished.

There must be no obstacle in front of the tap while it is being set automatically.

7. Set the flow rate and temperature of running water according to the tap design (by angle valves, tap ring...). If the water temperature is set by a thermostatic valve, the flow must only be regulated after the valve. The flow rate therefore cannot be set by angle valves – if the temperature changed, the flow rate would also change.

Warning

- The automatic tap may only be connected to ZAC supply source otherwise the manufacturer does not guarantee reliable operation and does not accept responsibility for losses caused by connection to a different source.
- Electrical connection may only be provided by appropriately qualified and competent person.
- Before putting into operation, initial revision of the electrical device according to ČSN 33 2000-6-61 and ČSN 33 1500 must be carried out.
- During the operation, the operator is obliged to carry out revisions of the electrical device.

Note

- The rundown time setting may be adjusted by the remote controller which is not included in the automatic washbasin tap delivery. It can be ordered separately and may be used with all AZP Brno products with sensors.

Key and supplied parts

1 – washbasin tap incl. fixing material	1 pc	7 – angle valve with filter	1 – 2 pc
2 – washbasin – not included in the delivery		8 – thermostatic valve	0 – 1 pc
3 – hose M10x1 with thread, short	1 – 2 pc	9 – ball valve	0 – 1 pc
4 – case with electronics	1 pc	10 – sealing with sieve	1 – 2 pc
5 – electromagnetic valve	1 – 2 pc	11 – T-reduction 1/4" x 3/8"	0 – 1 pc
6 – hose, long	1 – 2 pc	12 – hose M10x1 with thread, long	0 – 1 pc

Troubleshooting

Fault	Potential cause	Solution
The light does not blink at all after switching on	Power supply is not connected The device was connected directly to 230 V (without a supply source)	Connect to 12V, 50 Hz supply The electronics is irreparably destroyed
Weak flow of water	Clogged filter	Clean the angle valve filter
Water does not run	Zero flow rate is set	Set correct flow rate
Electronics works well, water does not run	The device is connected to a switching source (e.g. for halogen lighting) – electromagnetic valves do not work at higher frequencies	Use the prescribed supply source
Water temperature at a thermostatic valve tap cannot be set	Hoses for hot and cold water are connected the other way round	Connect correctly



Water keeps running – electronics works well	Impurities in the electromagnetic valve	Clean the valve
Too small range – hands must be placed close to the tap	There was an obstacle in front of the tap while it was being set – the range was set according to the obstacle	Switch the supply on and off – new setting will be run

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.
- LARRIN is recommended as a detergent.
- If corrosion has already occurred, it can be removed with a cleaner INNOSOFT B 570 from the company Emergo.

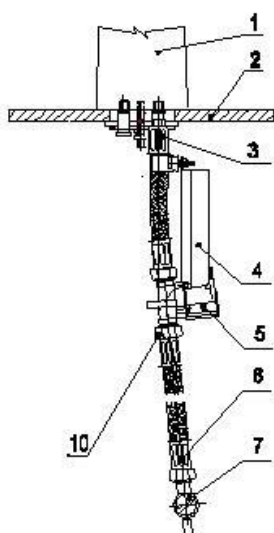
Valve cleaning

- Screw out three spins holding the coil. Remove the coil; carefully take out plastic covering of the core; (be careful not to lose the spring). Remove the membrane, clean the space underneath. Check out the clearness of both inlets in the plastic centre of the membrane and insert the valve. It is necessary to observe the water flow direction at the back assembly – see the arrow on the valve.

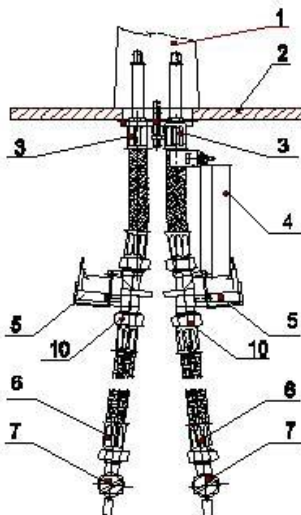


Tap connection scheme

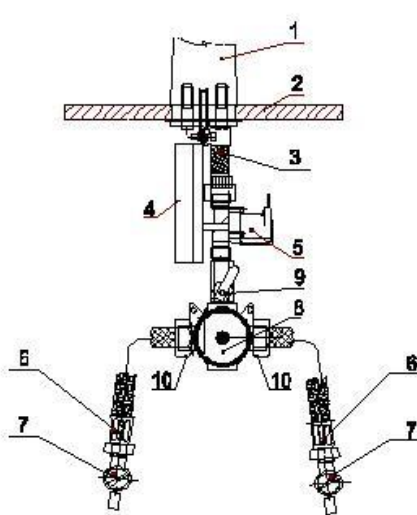
for one water connection



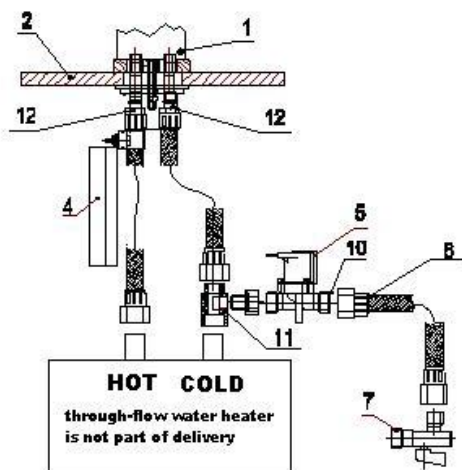
for hot and cold water



with hidden thermostatic valve



**with through-flow water heater
and tap temperature regulation**



**with through-flow water heater
without tap temperature regulation**

