



Installation and operating manual

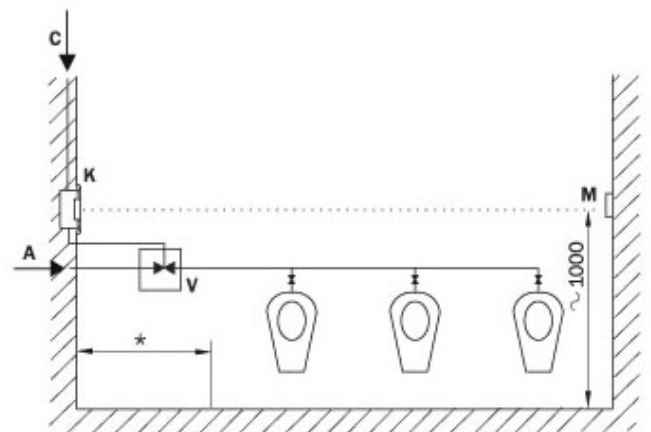
AUP R – Automatic flushing system for one urinal

BASIC TECHNICAL INFORMATION

Radius of sensor :	1,5 – 4,5 m (adjusted automatically after connection to electricity supply)
Power supply :	12 V, 50 Hz
Power requirement :	6 VA
Adjustable time of flushing :	1 – 20 s (manufacture adjustment to 5 s)
Water pressure :	0,1 – 1,0 MPa
Recommended source of power supply :	ZAC 1/20 (max. 3 x AUP R) ZAC 1/50 (max. 8 x AUP R)
Weblink:	AUP R

Function of the flushing system

- When entering scanning zone of the flushing system the electronics is activated, this is indicated by a pilot light placed in a window in casing of the flushing system. After leaving the scanning zone the pilot light switches off, electromagnetic valve is opened and system flushes.
- When entry to and departure from the scanning zone is shorter than 10 seconds, the electronics do not react and the electromagnetic valve is not opened. In this way it prevents needless flushing after accidental or momentary entry into the scanning zone (cleaning, passing by the urinal, etc.)

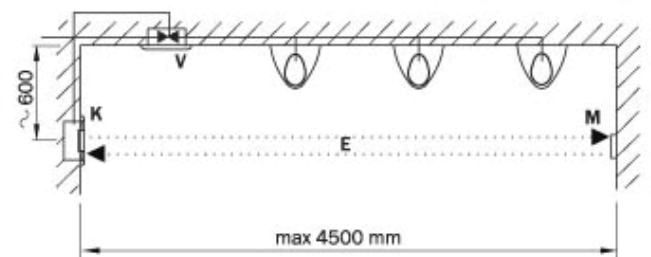


* ZONE OF INSENSITIVITY (approx. 20% of adjusted latitude)

Installation of the flushing system

Requirements for setting up the construction

- 1) Set up alcoves
 - a) 150 x 150 x 100 mm for setting up the installation box of the electromagnetic valve
 - b) 150 x 150 x 70 mm for setting up box with electronics
- 2) Set up the water inlet with pipe 3/4" with an inner bolting to the alcove with the electromagnetic valve box and individual urinals. We recommend equipping the urinals with a valve for individual water flow adjustment.
- 3) A **filter** must be set up in the water inlet to urinal or group of urinals for removing mechanical dirt together with a back-flow valve to prevent reverse priming.
- 4) Set-up cable CYKY 2A x 1,5 from source of power supply ZAC into assembly box. The cable CYKY 2A x 1,5 or wiring pipe has to be built-in to the wall for additional cable extension.
- 5) Set up the outlet.
- 6) Finish the construction work and tiling.



A – WATER INLET
Inner pipe G1/2"
C – ELECTRICITY SUPPLY
Cable CYKY 2Ax1,5
E – ZONE OF SCANNING
K – BOX OF ELECTRONICS
M – REFLECTIVE GLASS
V – BOX OF THE VALVE

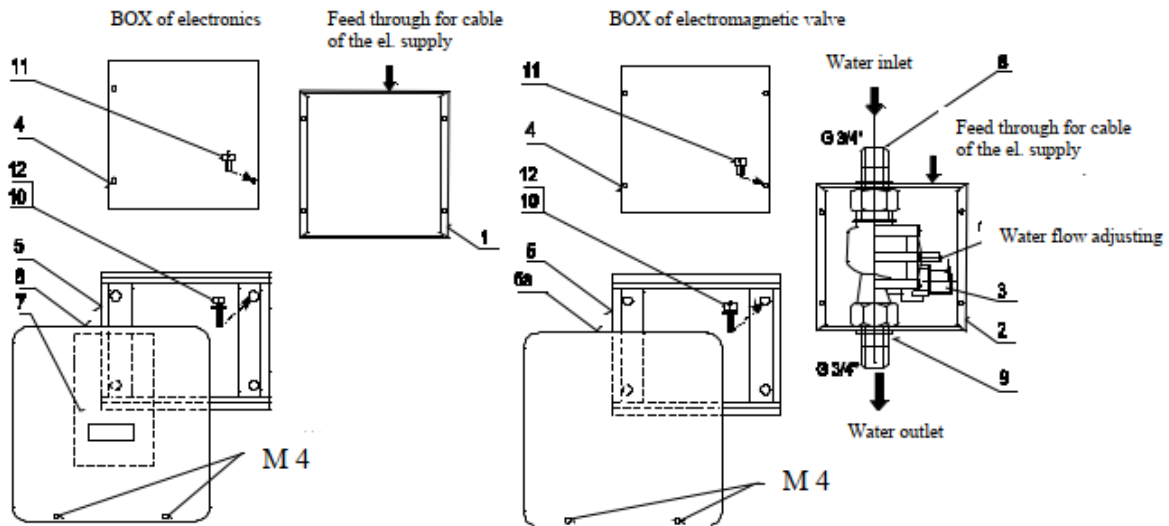


Notice

- The opposite walls (the wall with the electronics and the wall with the reflective glass) have to be parallel.
- The box with the electronics has to be placed in such a spot that the person using the urinal is disconnecting the ray between the electronics and reflective glass. (The ray is not visible.)

Assembly

1. Put the boxes with the electronics and valves 1 and 2 into the alcoves in the walls on the level of the rough cast. Screw on the water inlet onto the inlet screw 8, than connect the outlet screw 9 to the outlet of the urinals. A filter must be set up in the water inlet to the group of urinals for removing mechanical dirt together with a back-flow valve to prevent reverse priming. We recommend equipping the urinals with a valve for individual water flow adjustment.
2. Install in the cable of the power supply through the rubber feed-through into the box of electronics 1. Bring out the cable for the valve connection from the box of electronics 1 to the box of the valve 2.
3. Mount on the metal plates 4 to the boxes by means of screws M 4x12 to prevent entry of dirt.
4. Finish tiling and construction work.
5. Remove the metal plate 4. Set up the spacer frames 5 by means of the screws M4x40 10 and pads 12. Tighten the anchoring screws softly; straighten the installation boxes according to the tiling and then fasten the screws properly.
6. Connect the electricity supply cable and the valve cable to the distribution frame of the box of the electronics.
7. Hang out the stainless steel casing on the upper part of the spacer frame, push it to the wall and screw the screws in the bottom part of the frame softly – do not use force.
8. Set up the connectors of the electromagnetic valve to the contacts of the electromagnetic inductor and adjust the water flow by the screw in the middle of the valve. Valve can be opened by turning the inductor.
9. Switch on power supply (from source of power supply ZAC). A pilot light flushes 3x after switching on, then urinal flushes itself. The automatic setting up follows.
The space in front of the photocell sensor must be free while setting up.
Now automatic sensitivity setting is on its maximum. Place the reflective glass on the opposite wall without taking off the protective foil. A pilot light starts flushing. If it does not start flushing, keep moving the reflective glass on the wall till the flushing occurs. If it does not start to flush, it is necessary to switch off the source of power supply again. (An obstacle was in front of the urinal during setting up, short zone of scanning was adjusted after its removal, scanning zone was automatically set-up to this obstacle.)
10. Start moving the reflecting glass vertically down till the pilot light starts to flush. Mark this spot. Than start to move the reflecting glass vertically up and mark the spot where the pilot light starts to flush. Repeat the same in a horizontal direction. Put on the reflecting glass in the center of this tetragon. Clean the spot properly before putting on the reflecting mirror. Remove the protective foil, the reflecting mirror is a self-adhesive.
11. Switch the power supply off and on. The pilot light starts blinking fast until the automatic setting up is finished – max. 10s.
The space in front of the photocell sensor must be free while setting up.
12. Check out the function of the urinal flushing system by entering the scanning zone for more than 10 sec. Time of flushing is adjusted by manufacturer to 5 s. In case of necessity this setting can be changed by means of remote control that is not part of the delivery and must be ordered separately.



Notice

- Automatic flushing system AUP R can be connected only to source of power supply ZAC, in other cases the manufacturer does not take the responsibility for reliable functioning and responsibility for eventual damages arising from connection to other voltages.
- Electric connection can only be carried out by a qualified and competent worker. It is necessary to carry out an initial revision of electric equipment before starting operation.
- The user is obliged to carry out revisions of the electrical equipment during its operational life.
- **The electronics react to transmitted rays reflected from an object. Dark colors absorb such rays more and therefore they can react in a worse way and the radius is reduced.**

Explanation and delivery parts

- 1 - installation box of electronics
- 2 - installation box of the valve
- 3 - electromagnetic valve
- 4 - covering assembly metal plate – 2 pcs
- 5 - mounting spacer tray – 2 pcs
- 6 - stainless steel casing of box of electronics
- 6a - stainless steel casing of the valve box
- 7 - electronics
- 8 - inlet bolting
- 9 - outlet bolting
- 10 - screw M 4x40 – 8 pcs
- 11 - screw M 4x12 – 4 pcs
- 12 - pad d5 – 8pcs
- 13 - connecting cable between electronics and valve
- 14 - reflective glass



Possible failures and their solution

Failure	Cause	Solution
The pilot light will not blink and flush after it's switched on	Failure in electricity supply – source is not connected or connected to other voltages, e. g. to 230 V	Check electricity supply – after connection to 230 V electronics are destroyed
The pilot light will blink and will not flush	Choked filter in corner valve.	Clean the filter.
The pilot light is not blinking It is not flushing	There is no ray reflection. Reflection glass is missing. Ray is not directed correctly.	Put up the reflection glass. Direct the ray correctly.
The pilot light is blinking It is not flushing	Scratched scanner of the electronics	Change the scanner (repair to be done by manufacturer)
First urinal does not flush after it is used	Urinal is placed in the zone of insensitivity	Replace the urinal
In a few years of use the is not enough water flowing out	Membrane in the electromagnetic vlvle is destroyed	Exchange the membrane

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.

Valve cleaning

- There is no need to take the valve out of the box.
- Switch off the water supply, unloose the cap nut and rotate the valve. Screw out six 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 – the arrow on the valve and voltage polarity.
- To remove the inductor, pull out the secure plug in the bottom part of the inductor, turn the inductor all the way and take it out. Now it is possible to clean the seating face of the nut.