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TECE flushing technology – cistern

TECE cistern
The concealed cistern from TECE is a universally adaptable standard cistern. By using different frames, the cistern can be installed in dry or wet-wall constructions. The TECE cistern is always equipped with the same internal technology inside and is therefore compatible with all TECE flush plates. Due to the cistern’s universal nature, there is a clearly organised range and storage and the supply of spare parts is straightforward.

Properties of the cistern:
• Pre-assembled and sealed
• Can be combined with all TECE flush plates
• Single or dual-flush technology available
• Robust lever mechanism
• 10-litre safety tank: enough water when needed
• Compatible with standard spare parts available on the market:
  4.5 and 3 litres,
  6 and 3 litres,
  7.5 and 3 litres or
  9 and 3 litres.
• Cistern tank made of impact-resistant plastic
• Easy to install
• Self-explanatory technology

Tank
As the tank volume is 10 litres, there is always plenty of water for flushing. Even after flushing with the large flush volume, water is always available for a follow-up flush. The tank is made of impact-resistant plastic and is insulated to prevent condensation.

A2 drain valve
A2 drain valve has been installed in the TECE cistern since the middle of 2009.

Dual-flush technology
During everyday use, a considerable amount of drinking water is used to flush toilets. The intelligent solution from TECE goes a long way towards saving water. With dual-flush technology, the small flush volume is set to 3 litres, and the large flush volume can be set to 4.5/6/7.5 or 9 litres. The default setting for the dual-volume flush is 6 litres for the large flush volume and 3 litres for the small flush volume.

Single-flush technology
Single-flush technology is also possible with TECE cisterns and TECE drainage valves. However, with this flush option, only the large flush volumes of 4.5/6/7.5 or 9 litres are available.

General
Due to the easily adjustable drainage valve settings, the flush volumes can be adapted to each specific situation. In new builds with custom pipes, gradients and a 4.5-litre ceramic, it is possible to use a 4.5-litre saving flush in combination with a 3-litre flush. However, pipework systems are often installed which need a larger flush volume to ensure that they work correctly. In this case, flush volumes of up to 9 litres can be chosen to ensure this.
**Setting the flush volumes**

The flush volumes are adjusted centrally using an adjustment slide on the rear of the drain valve. The flush volumes which can be set are clearly marked on the valve.

**Increasing the flushing pressure:**

If a toilet ceramic is not being correctly cleaned then the flushing pressure for standard cisterns can be subsequently increased. To increase the flushing pressure, install a throttle with a larger internal diameter or remove the inserted throttle.

The flush flow throttle can be easily installed in the valve seat of the drainage valve.

**Throttle set**

Problems with the toilet ceramic not flushing correctly can be resolved with the aid of a throttle set.

The throttle set includes eight different throttles:
- Brown: 46 mm diameter (approx. 115% flush pressure)
- Red: 42 mm diameter (approx. 110% flush pressure)
- Yellow: 39 mm diameter (approx. 105% flush pressure)
- Blue: 36 mm diameter (approx. 100% flush pressure)
- Green: 34 mm diameter (approx. 95% flush pressure)
- Grey: 32 mm diameter (approx. 85% flush pressure)
- Black: 30 mm diameter (approx. 75% flush pressure)
- White: 28 mm diameter (approx. 65% flush pressure)

**Reducing the flush pressure:**

The throttle set can be used to reduce the flush pressure if water sprays out of the ceramic. To control the flushing pressure, a throttle with a smaller internal diameter can be used.
Converting the A1 drain valve to the A2 drain valve

If a drain valve is replaced as a spare part or the new drain valve is modified because of the additional functions (4.5/7.5 litre flush, throttle set), the new A2 drain valve offers full compatibility with the old A1 version.

The operating lever, 2 throttles and valve seat are included in the scope of delivery along with the A2 drain valve.

When replacing an old A1 drain valve with a new A2 one, care must be taken to ensure that the operating lever is also replaced.

F 10 filling valve

The F 10 replacement filling valve (order number 9820353) universally fits in all TECE cisterns and in many competing cisterns.

Properties:
- Low-noise in accordance with acoustic group 1 (DIN 4109)
- Functional range: 100 hPa to 10,000 hPa
- Minimum flow pressure: 500 hPa
- Adjustable fill level
- Compact design
- Adjustable outlet pipe
Setting the fill level (filling valve)
The fill level in the cistern can be set by turning the adjustment spindle on the filling valve.

The height should be set so that the water reaches the upper mark on the overflow of the drain valve and the top mark in the cistern (see diagram).

Cleaning the filling valve

The inlet component (A) or the membrane of the pilot valve (B) can be cleaned if they become dirty due to polluted water.
To do this, remove the parts and simply hold them under running water.

If necessary, you can obtain replacement parts for the filling valve with order numbers 9820382 (valve lever set) and 9820383 (sealing kit).
Assembly

Shell construction stage
The corner valve of the TECE concealed cistern is closed and pre-installed as a complete unit. The pressure can be tested without the cistern needing to be opened. The cistern only needs to be opened during the fine installation phase. During the shell construction stage, the cistern remains sealed. An unbroken seal during fine installation work guarantees that the cistern is clean and functional. A damaged seal shows that the cistern has already been opened.

Fine installation
The TECE concealed cistern can only be opened by destroying the seal on the splash protection. If the seal is intact at the fine installation stage, the inner workings of the cistern are intact and free of contamination. The connection pipe must be well flushed out during commissioning of the concealed cistern. To do this, the hose can be lead out of the cistern towards the outside. After being flushed out, the reinforced hose can be screwed to the filling valve without the need for any tools.

A special feature of the TECE concealed cistern is the actuation block mounted on the splash protection. When the concealed cistern is opened, it is completely removed. This also works with the support frame for the actuation.

Despite the small inspection opening there is ample space to work within the cistern. The operating lever is shaped in such a way that when inserted, it automatically hooks into the drain valve’s drawbar eyelets.
Toilet flush plates

All TECE flush plates fit all standard cisterns!
For more information on TECE push plates, refer to the “Flush plates” technical guidelines.

Overview of TECE toilet flush plates

The toilet flush plates shown here only give an overview of the available product range. See the whole range online at www.tece.de. There, you can also find a flush plate configurator, which allows you to select the material and colour for the buttons and covers.
TECE flushing technology – U 1 urinal flush valve

U 1 TECE urinal flush valve

The TECE U 1 urinal flush valve is based on a further development of tried and tested flush valve technology. Well-conceived details and improved materials ensure a long life and high reliability.

The TECE urinal flush valve is suitable for mechanical and electronic actuation. The same housing is used in both cases. The flush volume can be set from one to a maximum of about eight litres.

The flush housing contains the inlet flow control, this is adjusted using an Allen key (3 mm). A 90° anti-clockwise turn closes the inlet flow control, a 90° clockwise turn opens it.

Housing for urinal flush valve and cartridges

Manual and electronic cartridges have the same flush valve housing and the same high flush performance of > 0.3 l/s at 1 bar.

Using the following flow diagram, you can calculate the flush volume for the urinal pressure flushing system depending on mains pressure and flush time.

Example:
Mains pressure 3 bar: Flushing flow = 0.58 l/s
Flush time e.g. 3.5 s: Flush volume approx: 2 litres

Mechanical flush valve

The mechanical flush valve (to DIN EN 12541) is hydraulically controlled and is sturdy and reliable. An automatic jet cleaning function ensures long and maintenance-free operation. The adjustable flush volume remains constant, irrespective of the supply pressure.

Volume adjustment

The flush volume of the mechanical cartridge can be set to 1, 2 or 4 litres using a retaining ring. When the retaining ring is removed, the flusher can be set to 6 – 8 litres.
Adjusting the volume on the mechanical cartridge

All TECE manual urinal push plates can be used together with the U 1 mechanical urinal flush valve.

U 1 electronic flush valve

Touch-free electronics are often particularly required in the public sector. Because the covers of the TECEplanus electronics are made of metal and are also equipped with anti-vandal protection, the electronic units from TECE are particularly well-suited to this application.

The Autofocus infrared sensor reliably recognises every use. A magnetic key allows various settings to be performed on the electronics, including retrospectively.

The TECEplanus infrared electronics can be supplied with electricity in two different ways:
- 6 V battery
- 230 V/12 V mains power supply

6 V battery version

The electronics on the battery version have one connection to a battery (connector with white marking) and one to an electronic cartridge (connector with black marking).

Power is supplied by a 6 V battery, type: 2 CR 5 Lithium 6 V.
Based on a service life of two years, the battery lasts for
- 220,000 flushes or
- approx. 300 flushes/day.

When the voltage drops to 5.4 V, the voltage for operating the electronics is no longer sufficient and the battery must be replaced. The electronics notify you of this by beeping during the flush process. If the voltage drops any further, a flush can no longer be performed and the electronics will only beep when a person is in the detection range.

Technical data urinal infrared electronics, 6 V battery

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum flow pressure</td>
<td>0.5 bar</td>
</tr>
<tr>
<td>Max. operating pressure</td>
<td>12 bar</td>
</tr>
<tr>
<td>Flow rate at 3 bar</td>
<td>0.58 l/s</td>
</tr>
<tr>
<td>Operating voltage</td>
<td>6 V DC</td>
</tr>
<tr>
<td>Power input</td>
<td>1 W</td>
</tr>
<tr>
<td>Max. power input</td>
<td>5 W</td>
</tr>
<tr>
<td>Battery type</td>
<td>Lithium 6 V, 2 CR 5</td>
</tr>
<tr>
<td>Max. battery service life</td>
<td>approx. 3 years</td>
</tr>
<tr>
<td>Protection class</td>
<td>III</td>
</tr>
<tr>
<td>Safety extra low voltage (SELV)</td>
<td></td>
</tr>
<tr>
<td>Flush time, factory setting</td>
<td>3 s</td>
</tr>
<tr>
<td>Flush time, setting range</td>
<td>2-10 s</td>
</tr>
</tbody>
</table>
TECE flushing technology – U 1 urinal flush valve

Pre-flush, factory setting: off
Pre-flush, setting range: 0.5-2 s
Pause function, factory setting: off
Hygiene flush, factory setting: off
Hygiene flush, setting range: off, 24 hours, 255 hours

It is recommended that only TECE original products are used for the installation. Make sure that the polarity is correct when connecting the cables.

Technical data urinal infrared electronics, 230 V/12 V mains
- Minimum flow pressure: 0.5 bar
- Max. operating pressure: 12 bar
- Flow rate at 3 bar: 0.58 l/s
- Mains voltage: 230 V
- Operating voltage: 12 V (± 20%)
- Power input: 1 W
- Max. power input: 5 W
- Protection class: III
- Safety extra low voltage (SELV)

Flush time, factory setting: 3 s
Flush time, setting range: 2-10 s
Pre-flush, factory setting: off
Pre-flush, setting range: 0.5-2 s
Pause function, factory setting: off
Hygiene flush, factory setting: off
Hygiene flush, setting range: off, 24 hours, 255 hours

Technical data 230 V/12 V mains transformer
- Input voltage: 230 V AC (± 20 %)
- Frequency: 48–63 Hz
- Rated Output voltage: 12 V DC (± 20 %)
- Output voltage tolerance: ± 3%
- Residual ripple: < 50 mVpp
- Rated Output current: 1.0 A
- Nominal power: 6 W
- Minimum load: 0
- Energy efficiency: 75 %
- Overload protection: electronic
- Short circuit protection: electronic
- Type of protection: IP 20
Protection class II
CE low voltage power supply

Operating temperature -20 °C to +40 °C
Safety standard EN 61 558/EN 60 950
EMV standard EN 55 022/B
Technology Switching
Switch frequency 100 KHz
Dielectric resistance 3 750 V/1 min
MTBF (MIL HDBK217) 120,000 h

Installation of urinal flush valves
The installation procedures for the mechanical and the electronic flush valves are practically identical:

1. Cut the bare-wall protection flush against the wall, and remove it together with the polystyrene support.

2. Sufficiently flush out the pipe.

3. Observe the following:
When performing the pressure test, the inlet flow control of the flush valve must be set to free-flow.

4. Before mounting the cartridge, ensure that the inlet flow control is closed so that no water can leak out during assembly. Close the shut-off using an Allen key. In the free-flow setting (fig. 3), the shut-off slot is parallel with the housing, and in the closed setting (fig. 4), it is at right angles to the housing.

5. Remove the bare-wall plugs.
**Installing the mechanical U 1 urinal flush valve housing**

If applicable, set the flush volume before mounting the cartridge (factory setting = 2 litres). To do this, remove the retaining ring and insert it back into the corresponding slot:
The first slot corresponds to a flush volume of 1 litre, the second to 2 litres, and the third slot to a flush volume of 4 litres. Without a retaining ring, the flush valve will flush a volume of 6–8 litres.

Open the inlet flow control.

Screw in the mechanical cartridge.

Screw in the actuating rods as described above (e.g. for the TECEambia, distance to wall surface = 10 mm), and screw on the counter nut to prevent them from turning.

Finally, mount the flush plate cover (here, TECEambia).
Installing the electronic U 1 urinal flush valve housing, 6 V version

6

Unscrew the fastening screws on the bare-wall protection.

7

Install the electric cartridge (do not insert with tool !) and tighten the screws by hand.

Note:

It is particularly important, when installing the electronic cartridge, to place it in the correct position. As can be seen on the right-hand side of the diagram, the position also depends on the installation situation of the flush valve housing: Horizontal housing = shut-off on the left, electronics on the right; vertical housing = shut-off at the top, electronics at the bottom. If the cartridge is installed incorrectly, the function may operate to start with, however, malfunctions will occur after a while.

8

Open the inlet flow control.

9

Screw the support frame onto the urinal flush valve housing.

10

Place the connector adapter on the battery and position it in the opening provided for the purpose.

11

Connect the battery and cartridge to the electronics.
Finally, install the flush plate cover and mount the vandal-resistant screw supplied.

**Installing the electronic urinal flush valve, 230 V/12 V mains version**

Connect the transformer cable to the mains connection adapter. Ensure correct polarity when making the connections.

Note the maximum number of connected electronics (= 5) and the maximum length of the connection cable (= 10 m).

Remove the bare-wall plug and unscrew the fastening screws on the bare-wall protection.

Install the electric cartridge (do not insert with tool!) and tighten the screws by hand.

**Note:**

It is particularly important, when installing the electronic cartridge, to place it in the correct position. As can be seen on the right-hand side of the diagram, the position also depends on the installation situation of the flush valve housing: Horizontal housing = shut-off on the left, electronics on the right; vertical housing = shut-off at the top, electronics at the bottom. If the cartridge is installed incorrectly, the function may operate to start with, however, malfunctions will occur after a while.

Open the inlet flow control.
Earth the electronics via the fastening screw on the flush valve housing (see details) and screw the support frame onto the urinal flush valve housing.

Finally, install the flush plate cover and mount the vandal-resistant screw supplied.

Connect the electronics to the mains and to the cartridge.
Programming the urinal infrared electronics

After installing the electrical supply, the electronics can be programmed within one hour using the magnetic key supplied. If you wish to change the program, you must interrupt the power supply. Thanks to a memory chip, the last program set always remains active even after a power cut.

Approximately five seconds after being connected to the power supply, TECE electronics can be programmed in the first 60 minutes. Each configurable function is assigned a position.

<table>
<thead>
<tr>
<th>Position</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Pause function “off”</td>
</tr>
<tr>
<td>2</td>
<td>Pause function “on”</td>
</tr>
<tr>
<td>3</td>
<td>Flush time 2 s</td>
</tr>
<tr>
<td>4</td>
<td>Flush time 2.5 s</td>
</tr>
<tr>
<td>5</td>
<td>Flush time 3 s</td>
</tr>
<tr>
<td>6</td>
<td>Flush time 3.5 s</td>
</tr>
<tr>
<td>7</td>
<td>Flush time 4 s</td>
</tr>
<tr>
<td>8</td>
<td>Flush time 5 s</td>
</tr>
<tr>
<td>9</td>
<td>Flush time 6 s</td>
</tr>
<tr>
<td>10</td>
<td>Flush time 8 s</td>
</tr>
<tr>
<td>11</td>
<td>Flush time 10 s</td>
</tr>
<tr>
<td>12</td>
<td>Pre-rinsing “off”</td>
</tr>
<tr>
<td>13</td>
<td>Pre-rinsing 0.5 s</td>
</tr>
<tr>
<td>14</td>
<td>Pre-rinsing 1 s</td>
</tr>
<tr>
<td>15</td>
<td>Pre-rinsing 2 s</td>
</tr>
<tr>
<td>16</td>
<td>Hygiene flush “off”</td>
</tr>
<tr>
<td>17</td>
<td>Hygiene flush 24 h</td>
</tr>
<tr>
<td>18</td>
<td>Hygiene flush 255 h</td>
</tr>
<tr>
<td>19</td>
<td>Sensor sensitivity “low”</td>
</tr>
<tr>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>23</td>
<td>Distance “standard”</td>
</tr>
<tr>
<td>24</td>
<td>Distance “short”</td>
</tr>
<tr>
<td>25</td>
<td>Distance “long”</td>
</tr>
<tr>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>28</td>
<td>Factory setting</td>
</tr>
<tr>
<td>29</td>
<td>Urinal covers “off”</td>
</tr>
<tr>
<td>30</td>
<td>Urinal covers “on”</td>
</tr>
</tbody>
</table>

The pre-flush stimulates the urge to urinate.

- Pause function (optional):
  The volume of water is automatically reduced if the urinal is flushed at intervals of less than two minutes. A cleaning flush takes place 45 minutes after the last water-saving flush.

- Variable flush time:
  (Duration 2–10 seconds) The flush volume can be adapted to requirements throughout the flush time.

- Distance:
  The modern autofocus sensor optical system operates reliably in varying construction situations. Nevertheless, the optical system’s detection range can be changed on extremely small or large urinal systems.

- Hygiene flush (optional):
  If this function is activated, a regular clean flush prevents the siphon from drying out and emitting unpleasant smells, and also prevents residues from being deposited (choice of 24 or 255 hours after the last flush).

- Siphon refill (optional):
  Modern urinals generally suck the siphon contents completely away and then refill enough water to fill the siphon back up again. If this does not work, the refill function of the TECE electronics can be activated. A short flush impulse fills the siphon back up.

How to program the TECE electronics:

- Hold the programming key briefly in front of the sensor window. The programming mode starts with a quick series of short beeps.

- After the start-up phase, a sequence of the same beeps can be heard. Count the beeps until you reach your desired function.

- Now remove the programming key. A long beep indicates that the programming key has been removed.

Example: Setting the flush time to three seconds

Hold the programming key in front of the sensor until the desired position is reached. Count the individual beeps. Remove the key.

= factory setting

**Programming list for the urinal electronics**

In programming mode, the electronics can be set with the magnetic key. In standard mode, only the cleaning function can be activated with this key.

- Cleaning function:
  When cleaning the urinal, automatic flushing is generally not required as the cleaning agent needs time to take effect. For this reason, flushing can be delayed by 10 minutes.

- Pre-flush (optional):
  (Duration 0–2 seconds) Briefly humidifies the ceramic before use, preventing adhesion of urine. Desired side effect: The pre-flush stimulates the urge to urinate.
Urinal flush plates for the new U 1 urinal flush valve

The urinal flush plates shown here only give an overview of the available product range. See the whole range online at www.tece.de. All urinal flush plates are shown in this overview. For more information on TECE push plates, refer to the “Flush plates” technical guidelines.
TECE flushing technology – U 2 TECEfilo urinal flush valve

**U 2 TECEfilo urinal flush valve**

The new TECEfilo urinal electronics are available with a metal, glass or plastic surface. Their appearance therefore harmonises perfectly with various TECE flush plates such as with the TECEsquare metal, TECEsquare glass toilet flush plates or with the TECEnow toilet flush plate. The TECEfilo urinal electronics with a glass or plastic surface can also be mounted flush to the surface with the TECEfilo installation frame.

Based on a service life of two years, the battery lasts for
- 220,000 flushes or
- approx. 300 flushes/day.

The U 2 TECE urinal flusher is suitable for installation in dry and brick-wall constructions. For dry-wall structures, installation is performed together with the TECE urinal module. The transformer is already integrated into the two shell elements which means that it is suitable for direct 230 V connection.

**U 2 TECEbox urinal flush valve housing for brick-wall structure (9370040)**

Compatible with the 230 V mains and the 7.2 V battery variants. The transformer for 230 V mains operation is already integrated.

**TECEprofi urinal module with U 2 flush valve housing (9320013)**

Compatible with the 230 V mains and the 7.2 V battery variants. The transformer for 230 V mains operation is already integrated.

**TECEfilo installation frame for flush-mounted installation, for dry-wall constructions only (9242040/...41/...42)**

The TECEfilo plastic electronics, like the glass ones, can be mounted with the TECEfilo installation frame in dry-wall structures.
Bare wall – mounting and installation

1. The U 2 flush valve housing can be installed in dry-walls and brick-walls. The transformer is already integrated into the flush valve housing to facilitate coordination of the different trades carrying out the assembly work. Therefore, the transformer can be directly connected with a 230 V cable.

2. It is also possible to loop the connection through (fig. 3).

3. To connect the pipe, hold the connection housing as shown in fig. 4.

Installing the wall-mounted TECEfilo urinal flush plate 230 V/12 V

1. Cut the thin surface with a cutter knife.

2. Use a saw to cut the corner areas, where the wall is thicker, flush to the wall.
To flush out the connection pipe, open the inlet flow control and sufficiently flush out the pipe.

Before mounting the flusher, make sure that the inlet flow control is closed so that no water can leak out during assembly. Close the shut-off using a flat-head screwdriver. In the free-flow setting (fig. 3), the shut-off slot is parallel with the housing, and in the closed setting (fig. 4), it is at right angles to the housing.

Loosen and remove the flush pipe elbow.

Make sure that the connection piece is fitted with a seal. This seal can be greased if necessary.

Insert the flusher and close it with the union nut.

Connect the transformer's plug-in connection.
10. Open the inlet flow control.

11. Screw the support frame onto the urinal flush valve housing.

12. Connect the plug-in connection for the infrared sensor on the cover plate.

13. Mount the cover.

14. Hook in the bottom of the cover panel.

15. The top of the anti-theft device must be detached for the installation.

16. Mount the anti-theft device from the top of the cover using a Philips screwdriver.
Then click the cover into place.

If necessary, the urinal electronics can be programmed. See the following programming instructions for more information.

To dismount the cover, insert the programming key into the notches on the underside of the flush plate.

The steps for installing the TECEfilo urinal electronics with the 7.2 V battery variant are virtually the same.

To facilitate installation, we recommend shortening the bare-wall protection to the correct size already when mounting the flush-mounted installation frame. If this has not already been done, shorten the bare-wall protection.

To flush out the connection pipe, open the inlet flow control and sufficiently flush out the pipe.
Before mounting the flusher, make sure that the inlet flow control is closed so that no water can leak out during assembly. Close the shut-off using a flat-head screwdriver. In the free-flow setting (fig. 3), the shut-off slot is parallel with the housing, and in the closed setting (fig. 4), it is at right angles to the housing.

Loosen and remove the flush pipe elbow.

Insert the flusher and close it with the union nut.

Connect the transformer’s plug-in connection.

Open the inlet flow control.
Stick the spacers to the back of the support frame of the plastic electronics, and screw the frame onto the urinal flush valve housing.

For the flush-mounted installation, leave out the anti-theft device. For the flush-mounted installation, the cover should always be removed using the bow-type handles.

Connect the plug-in connection for the infrared sensor on the cover plate.

Mount the cover.

Hook in the bottom of the cover panel.

Press the cover into the mounting support.
If necessary, the urinal electronics can be programmed. See the following programming instructions for more information.

The installed cover can be removed from the flush plate using the bow-type handles included in the installation frame's scope of supply. Only position the suction cups on the cover to be removed.

The steps for installing the TECEfilo urinal electronics with the 7.2 V battery variant are virtually the same.

### Programming the urinal electronics

To program the TECEfilo urinal electronics, the programming key provided in the scope of supply is required. The TECE electronics can be programmed during the first 30 minutes after connection to the power supply. In the event of a power failure, the last settings saved are retained. Each configurable setting is assigned a position on the remote control.

<table>
<thead>
<tr>
<th>Position</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Pause function “off”</td>
</tr>
<tr>
<td>2</td>
<td>Pause function “on”</td>
</tr>
<tr>
<td>3</td>
<td>Flush time 1 s</td>
</tr>
<tr>
<td>4</td>
<td>Flush time 2 s</td>
</tr>
<tr>
<td>5</td>
<td>Flush time 3 s</td>
</tr>
<tr>
<td>6</td>
<td>Flush time 4 s</td>
</tr>
<tr>
<td>7</td>
<td>Flush time 5 s</td>
</tr>
<tr>
<td>8</td>
<td>Flush time 6 s</td>
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<td>9</td>
<td>Flush time 7 s</td>
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<tr>
<td>10</td>
<td>Flush time 8 s</td>
</tr>
<tr>
<td>11</td>
<td>Flush time 9 s</td>
</tr>
<tr>
<td>12</td>
<td>Flush time 10 s</td>
</tr>
<tr>
<td>13</td>
<td>Pre-rinsing &quot;off&quot;</td>
</tr>
<tr>
<td>14</td>
<td>Pre-rinsing 0.5 s</td>
</tr>
<tr>
<td>15</td>
<td>Pre-rinsing 1 s</td>
</tr>
<tr>
<td>16</td>
<td>Pre-rinsing 2 s</td>
</tr>
<tr>
<td>17</td>
<td>Hygiene/interval flush “off”</td>
</tr>
<tr>
<td>18</td>
<td>Hygiene/interval flush 24 hrs</td>
</tr>
<tr>
<td>19</td>
<td>Hygiene/interval flush 72 hrs</td>
</tr>
<tr>
<td>20</td>
<td>Hygiene/interval flush 168 hrs</td>
</tr>
<tr>
<td>21</td>
<td>Refill &quot;off&quot;</td>
</tr>
<tr>
<td>22</td>
<td>Refill “on” (refill for 2 s after flushing for 2 s)</td>
</tr>
<tr>
<td>23</td>
<td>Sensor sensitivity “sensitive”</td>
</tr>
<tr>
<td>24</td>
<td>Sensor sensitivity “standard”</td>
</tr>
<tr>
<td>25</td>
<td>Hygiene flush volume small (5 s)</td>
</tr>
<tr>
<td>26</td>
<td>Hygiene flush volume medium (15 s)</td>
</tr>
<tr>
<td>27</td>
<td>Hygiene flush volume big (30 s)</td>
</tr>
<tr>
<td>28</td>
<td>Reset to factory settings</td>
</tr>
<tr>
<td>29</td>
<td>Urinal covers “off”</td>
</tr>
<tr>
<td>30</td>
<td>Urinal covers “on”</td>
</tr>
</tbody>
</table>

= factory setting

During the programming phase, a red diode flashes in the centre of the sensor field as soon as a person enters the area. This diode acknowledges that the programming mode is activated. In addition, it indicates the exact position of the programming key.
How to program TECE electronics:

- Hold the programming key in front of the red diode (see diagram). The programming mode starts with a quick series of short beeps.
- After the start-up phase you will hear a sequence of the same distinct beeps. Count the beeps until you reach your desired function.
- Now remove the programming key. A long beep indicates that the programming key has been removed.

**Example:** Setting the flush time to three seconds

![Diagram showing programming process]

Adjustable functions:

**Pause function/stadium function**
When the pause function is activated, the flushing time is automatically reduced to one second following repeated flushes in short succession (= less than two minutes). 45 minutes after the last economy flush, a standard flush is activated.

**Cleaning function**
Activating the cleaning function stops the urinal from flushing for ten minutes. After this time, a cleaning flush is automatically triggered and it returns to the standard operating mode.

Activating the cleaning function:
Hold the programming key briefly in front of the sensor window until an acknowledgement beep sounds.
The cleaning function can only be activated in standard mode, not during the programming phase.

**Hygiene/interval flush**
Automatic flush actuation, choose between 24, 72 or 168 hours after the last flush. The hygiene flush volume can be set to small (5 s), medium (15 s) or large (30 s).

Flow characteristic curve:
Using the flow characteristic curve, the TECEfilo flush volume flow rate can be read and set depending on the flow pressure as well as the flushing time:

![Flow characteristic curve diagram]

**Example:**
Mains pressure 4 bar → Flow rate 0.44 l/s → with 5 s flushing time ≈ 2.2 l