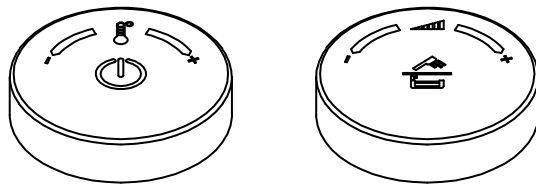# DUO·1 Control Wheel

User Manual

TEP421 / TEP431 / TEU431 / PT7003 / PT7004

for bath application (with temperature and water flow sensor)

Important Safety Information

The user manual must be given to the user. Please read this user manual carefully before using the system and keep in a safe place for future reference. To reduce the risk of injuries, scalding and electrical shock, the safety precautions must be installed and followed as per install guide.

⚠ WARNING

Risk of injury. This device is not intended for use by persons (including children) with different or reduced physical, sensory, or mental abilities, or who lack experience or knowledge, unless they are under the supervision of or receive training for the use of the device by a person responsible for their safety. Children should be under supervision at all times to ensure that they do not use devices as toys.

CONTINUOUSLY TURNING THE CONTROL WHEEL IN THE CLOCKWISE DIRECTION MAY OVERRIDE THE PRE-SET MAXIMUM TEMPERATURE, RESULTING IN A RISK OF SCALDING.

If the power cord gets damaged, it must be replaced by the manufacturer, its authorized service agent or qualified personnel to avoid danger. Never operate the device with a damaged cable or plug! Do not pull on the power cable as this could cause damage to the cable and cause electric shock.

ⓘ Troubleshooting

Malfunctions	Possible Cause/Solution

The device is not working	- Start Diagnostic
	- Check that:
	  1. The control unit is connected to the mains
	  2. There is no power supply failure
	  3. The electric plug inside the control unit is well connected

No water flow when activated	- Check that:
	  1. Your faucet is well connected to the water supply
	  2. Both angle valves are fully opened
	  3. On another faucet in the house if you have water supply
	  4. The water supply hoses are not bent or twisted
	  5. The supply hoses might be soiled
	  6. The control unit is connected to the mains

Minimal water flow	- Check that:
	  1. Both angle valves are fully opened
	  2. The water supply hoses are not bent or twisted
	  3. The supply hoses might be soiled

Continuous water flow	- Press the ON/OFF button - Close access to water - After a few minutes, open again. It's still a continuous water flow, close access to water and contact your installer.

ⓘ Maintenance

- Use soft cloth, soapy solution and water for regular care. Wipe with a dry cloth.

- Avoid the use of abrasives or solvents, which damage the surface.

- Damage caused by inappropriate treatment by the user, is not covered by our guarantee.

Explanation of wheels

Functions:

WHEEL 1
- ON/OFF
- Changing the water temperature

WHEEL 2
- Change water flow
- Diverting tub ⟺ handshower/tubfiller

Basic Functions

1. Water ON

Press **Wheel 1** once (1x): Water ON

2. Changing water temperature

Turn **Wheel 1** when water ON: Change temperature according to LED color ring.
(blue = cold, orange = warm, red = hot)

3. Changing water flow

Turn **Wheel 2** when water ON: Change water flow

4. Divert between functions

Press **Wheel 2** once (1x): Divert between handshower and tub filler

5. Water OFF

Press **Wheel 1** once (1x): Water OFF

Quick Access for bath

Quick Access 1 (factory setting)

Press **Wheel 1** once (1x): Water ON by 95° F / 35° C and 100% water flow

Quick Access 2 (factory setting)

Press **Wheel 1** twice briefly (x2): Water ON by 100° F / 38° C and 100% water flow

Quick Access 3 (factory setting)

Press **Wheel 1** three times briefly (x3): Water ON by 107.5° F / 42° C and 100% water flow

Saving Quick Access

Quick Access 1	Quick Access 2	Quick Access 3
Press **Wheel 1** once (x1): Water ON like Quick Access 1	Press **Wheel 1** twice briefly (x2): Water ON like Quick Access 2	Press **Wheel 1** three times briefly (x3): Water ON like Quick Access 3

Start tub filling measurement (2.6 gallons / 10 liters of water will be filled automatically)

Turn **Wheel 1:** Change water temperature as desired

Turn **Wheel 2:** Change water flow as desired

Fill desired water quantity

When the tub is filled to the required water level, press & hold **Wheel 1** until LED color ring is flashing PURPLE. Release wheel immediately. Flashing 2x PURPLE: Water OFF, setting is saved (average temperature, water flow and filling quantity which was last set).

Reset Quick Access

Special function must be activated.

Quick Access 1	Quick Access 2	Quick Access 3
Press **Wheel 1** once (x1): Water ON like Quick Access 1	Press **Wheel 1** twice briefly (x2): Water ON like Quick Access 2	Press **Wheel 1** three times briefly (x3): Water ON like Quick Access 3

Press & hold **Wheel 1** until LED color ring is flashing DARK BLUE. Release wheel immediately.
Flashing 2x DARK BLUE Water OFF, reset settings (filling quantity is deactivated, temperature and water flow like factory setting).

Diverting handshower/tubfiller

Press **Wheel 1** once (x1): Water ON
Press **Wheel 2** briefly: Diverting tub filler ⟺ handshower

Anti-scald protection

Turn **Wheel 1**: Changing temperature from ≥ 100° F / 38° C temperature increase in smaller increments (more wheel turns).

Activating the cleaning mode

Deactivating wheels functions

Press & hold **Wheel 1** until LED color ring is flashing GREEN. Release wheel immediately.

Reactivating wheels functions

Press & hold **Wheel 1** until LED color ring GREEN goes out or wait 60 seconds (automatic reactivation)

Diagnostic

Press & hold **Wheel 1** until LED color ring is flashing ORANGE. Release wheel immediately.

Start Diagnostic:

1. LED color ring is illuminating RED: Check if hot water flows.

NO warm water is flowing: Check the hot water supply line.

- Is the hot water supply line open?
- Is the hot water system activated?
- Is the mesh filter ok?
- Are the cold and hot water supply lines correctly connected?

2. LED color ring is illuminating GREEN: Check if NO water flows.

Water flows:

- Device is broken. Email technical@blubathworks.com.

3. LED color ring is illuminating BLUE: Check if cold water flows.

NO cold water is flowing: Check the cold water supply line.

- Is the cold water stop valve opened?
- Is the mesh filter ok?
- Are the cold and hot water supply lines correctly connected?

Diagnostic completed

- Flashing **2x** ORANGE: Diagnostic successfully completed

- Flashing **3x** ORANGE: Malfunction of the temperature sensors. Email technical@blubathworks.com.

- Flashing **4x** ORANGE: Malfunction of the flow rate sensors. Email technical@blubathworks.com

Troubleshooting if LED color ring is NOT illuminating:

Please check the cable connection between control mixer (TEE030) & wheels. If you were unable to resolve the issue, please email technical@blubathworks.com or call 1.866.907.0122.

Special functions

Press & hold **Wheel 1** until LED color ring is flashing TURQUOISE. Release wheel immediately.

- Flashing **1x** TURQUOISE: Special functions activated.
- Flashing **2x** TURQUOISE: Special functions locked.

Changing between activation/locking device press & hold **Wheel 1** until LED ring is flashing TURQUOISE. Release wheel immediately.

Thermal disinfection

Special function must be activated.

ATTENTION: RISK of scalding!

Run Disinfection

Press & hold **Wheel 1** until LED color ring is flashing RED. Release wheel immediately.

Flashing RED: Flushing with hot water.

Stop Disinfection

Press **Wheel 1** once or wait 2 minutes (automatic stop).

Factory setting

Special function must be activated.

Press & hold **Wheel 1** until LED color ring is flashing BLUE. Release wheel immediately.

Flashing **2x** BLUE: Factory settings restored.