

SINGLE FULL AND ECONOMY FLUSH WC CONTROLLER
ECO EW21FTS(FE) TOUCH SENSORS ECO EW24FTA(FE) REACT SENSORS

eco-logic uk

The ECO-Logic WC Flush Controller is supplied complete with integral ECO 'One Touch' Sensors designed for easy wall/panel mounting into a recessed, double pattress box. Powered by 6vDC lithium cell batteries, with cables that connect to the solenoid valve, the WC flush controller has full and economy flushing modes and adjustable settings for flush times to suit installation conditions and WC pan design.

Range

One Touch Options:

TS= Touch Sensor, a non moving touch surface
 TA= React Sensor, requiring a light press action
 FE= Full and economy flush

ECO EW21FTS(FE) – 28mm ECO Valve

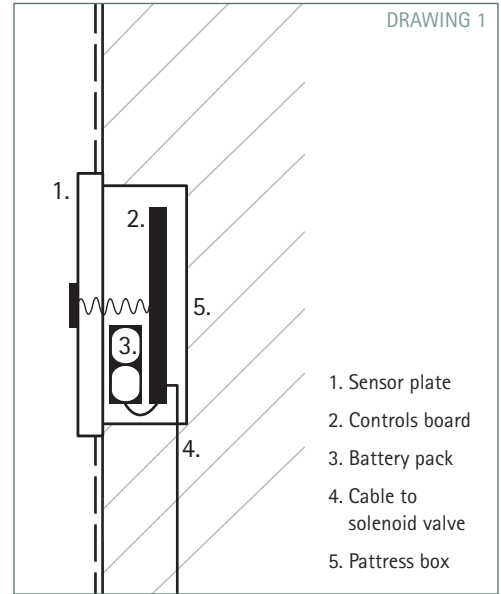
ECO EW21FTS(FE) – 35mm ECO Valve

ECO EW24FTA(FE) – 28mm ECO Valve

ECO EW24FTA(FE) – 35mm ECO Valve

See valve chart for choice and pressure options (page 2)

FULL AND ECONOMY FLUSH PLATE



Features

- Easy to install package of sensor and controls
- Choice of 'One Touch' sensors to suit all users
- Safe 6vDC power technology
- Recessed installation to wall/panel
- Fully compliant with water regulations
- Works with various water supply systems
- Compliant with water regulations
- Optional WC Blockage Alert System
- Optional Lockout Systems

Benefits

- Does not require cisterns – reduced maintenance & space saving
- Easy to use sensors by all ages
- Positional freedom to suit user
- Hygienic operation
- Safe 6vDC battery power technology
- Tamper proof settings prevent misuse
- Can be installed into most pressurised or tanked systems

Optional

- Blockage Alerts prevent flooding
- Lockouts prevent misuse and vandalism

Function

This controller provides a Full and Economy flush option to a single WC.

To operate, the user touches the appropriate sensor. The sensor sends a signal to the ECO Controller, which in turn sends a signal to the solenoid valve to open or close. The flushing valve is connected to the water supply from local or dedicated tanks, ECO Pipetanks or from direct mains or pressurised systems. For full information see TPS10, 11 or 13.

ECO-Logic Controllers and Sensors

ECO-Logic WC Flush Controllers provide highly accurate and trouble-free flushing to meet current water regulations.

Power supply	* Long life 6vDC Lithium cell battery, as standard. * Reduced-mains power (230v/6vDC) from an ECO transformer.
Flush Time	Set on rotary switches. Fully adjustable to suit high or low water pressure system installations.
Sensor Type	Two types of touch sensor are available. The React (FTA) Sensor is ideal for children/elderly who prefer a press action switch. The Touch Sensor (FTS) is a tough, solid state sensor.
Blockage Alert (Optional)	A separate ECO-Logic Controller capable of connecting several WC waste pipes. If a blockage is detected, the controller prevents further flushing of that WC and sets off an alert signal and alarm. A reset button restores the flush function when the blockage is cleared. All alerts, LED signals and reset buttons can be remotely linked to a maintenance office or BMS system.
Lockout System (Optional)	This isolates the controller and sensors to prevent flushing, assisting maintenance and helps prevent misuse.

SINGLE FULL AND ECONOMY FLUSH WC CONTROLLER

ECO EW21FTS(FE) TOUCH SENSORS ECO EW25FTA(FE) REACT SENSORS

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Installation Notes

The sensor housing front plate is 147/85mm (W/D) and is secured with screws to the recessed pattress box, flush with the wall/panel finish. The electronic board recesses into the pattress box. A cut out needs to be made for the connecting cable to the ECO Solenoid Valve fitted on the WC supply pipe.

Maintenance access needs to be allowed for the solenoid valve and any isolation valve fitting.

Electronics

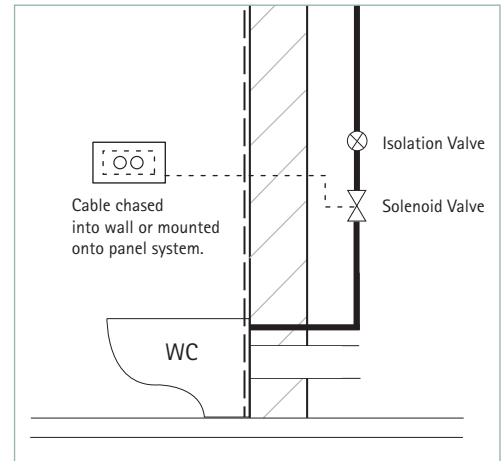
The unit is supplied with pre-wired and connected sensors and with 2 metre cables/connectors to fit the solenoid valve. The unit is powered by a 6vDC battery (supplied). Reduced-mains power ECOTrans transformers are available if preferred (see Product Sheet TR15).

Plumbing

ECO Solenoid Valves are supplied for installation on the cold water supply to the WC pan. Valve size depends on water pressure (see chart). ECO Flushing Systems do not use cisterns, but take supply from pressurised, direct fed, remotely tanked or ECO Pipetank systems. This offers easier installation, less pipework and lower costs. If supplied from pressurised or direct feed, or remote tanks supplying other cold water outlets besides the WC, a pipe interrupter fitting should be installed 300mm above the WC spill over (ECO 256A 025). Maintenance access to the solenoid valve and isolation fitting should be allowed.

Solenoid Valve Chart (WCs)

ECO35P (0.05 to 1 bar) c/w isolation/flow adjusters
 ECO 28P (0.5 to 6 bar c/w isolation/flow adjusters
 ECO D8 35mm (0.05 - 3 bar) Low Pressure
 ECO D4 28mm (0.05 - 3 bar) Low Pressure
 ECO D4 28mm (0.35 - 6 bar) High Pressure



Technical Information

Controller	ECO-Logic Controller, secured to back of sensor plate with screws.	
Sensors	ECO Touch Sense (TS) ECO React Sense (TA)	
Power	ECO Battery 1.3 AH Lithium Cell 6vDC or ECO Reduced-Mains Transformer (230vAC/6vDC) with automatic battery backup	
Flush Time	Adjustable to suit WC pan design & regulations (0.1 to 15.9 sec)	
Reflush Delay	Optional	
Solenoid valve	Coil with magnetic latching (various sizes – see chart)	
Operational mode	Fail closed	
Valve connection	* ECO 35P -35mm	* ECO D8- 35mm
	* ECO 28P - 28mm	* ECO D4-28mm
Flow Rate	Pressure dependent.	
Valve Body	* ECO D8 – DZR Brass	* ECO 35P – polyamide plastic
	* ECO D4 – DSR Brass	* ECO 28P – polyamide plastic
Cable Connection	2 core 0.5mm ² to BS21824 (2 metres)	

All ECO 'P' Valves are WRAS approved. Water Regulation Schedule 2, Section 9 Para 25
 Some mains water installations using brass valves may require the fitting of a check valve.

Related Product Sheets

One Touch Sensor	ECO EW21TS or TA	W19
Non Touch Sensor	ECO Trans Sense EW23CT ECO Infra Sense EW22IR	W18 W20
Flushing Systems	Mains/ Pressurised System Tanked Supplies ECO Pipetanks	W10 W11 W13
ECO Transformers	230v/6vDC and 50HZ	TR15
Secure Sanitaryware	Heavy Duty Polymer Stainless Steel	POL16 ELC17
Other Fittings	1"/1 1/4" Lever Action Isolation Valve Backflow Prevention ECO256A-025	

ECO-Logic provide solutions for:-

Handwashing • Bathfills • Showering • Flushing • Kitchens

Multi-Channel & Modular Controls for Ensuite Bathrooms & Washrooms

Secure sanitaryware • Lockout Systems • Shutdown Controls • BMS Links

Download at www.ecologicuk.com

Warranties

ECO-Logic Controllers and Sensor Electronics	2 years
ECO-Logic Solenoid Valves (Strainer Protected)	2 years
Brassware and other fittings	1 year

All ECO electronic products are designed, tested and manufactured in the UK to CE standards

Maintenance

- Replacement parts, batteries and service kits are available direct from ECO-Logic UK.
- Spares advice on individual products are provided in maintenance guides
- Maintenance requirements are very low. All product warranties are dependent on fittings being installed in accordance with ECO-Logic instructions.
- Battery life usually between 3-5 years (not Infra Red). Battery in ECOTrans transformers should last up to 10 years, depending on usage.
- ECO-Logic Controllers have a non-volatile memory which retain setup programmes if power is lost/switched off for maintenance.
- Solenoid Valves should be installed with service valves and strainers to allow inspection, and cleaning.

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