

ESCTDEP

Electronic Dual Cylinder Thermostat For Pre- Plumbed Cylinders

Installation Instructions



Thank you for choosing ESi Controls

All ESi products are designed and tested in the UK, so we are confident this product will reach you in perfect condition and give you many years of service. However, for additional peace of mind, we recommend you register your product online at www.esicontrols.co.uk/warranty for your extended 3-year warranty, within 30 days of purchase. Products registered after 30 days of purchase will qualify for 1 year warranty.

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Introduction

The ESCTDEP is a plug & play cylinder thermostat which is made for preplumbed hot water cylinders. ESCTDEP is a dual sensor cylinder thermostat with a high limit function for redundancy and increased safety. It must be plugged into wiring centre model ESWCPCB3CB.

Technical Data

Electronic Dual Cylinder Thermostat For Pre-Plumbed		
Cylinders		
Power Supply	230VAC, 50-60Hz	
Switch Action	SPDT (Control), SPST (Limit),	
	230VAC 6(1)A	
Temperature Setting Range	25°C to 65°C	
Automated 'Boost'	As per user setting	
High Limit Thermostat	80°C with concealed manual reset	
Tolerance	<1°C	
Switching Differential	2°C	
Protection Rating	IP30	
Dimensions	L: 110mm x H: 92mm x W: 48mm	
	(excluding flanges)	
Complies With	EMC (89/336 & 92/32 EEC) BS EN	
	60730-1: 2000, BS EN 60730-2-9:	
	2002. LVD (73/23/ EEC) (93/68/	
	EEC) BS EN 60730-1:2000, BS EN	
	60730-2-9:2002	

Installation Safety Instructions

This product must be installed by a suitably qualified person in accordance with the latest IEE Wiring Regulations.

N.B. You MUST isolate mains supply before starting installation. Please read all instructions before proceeding.

Ensure the fixed wiring connection to the mains supply is via a fuse rated at not more than 6 amps. No earth connection is required as the product is double insulated but ensure continuity of earth throughout the system.

General Safety Instructions

Only use this product for control of domestic hot water. Do not restrict safety valve outlets.

WARNING!

During the Anti-Legionella boost, the hot water will rise above 60°C. Take great care to avoid scalding if you do not have a thermostatic mixing valve installed.

Maintenance

Always isolate the mains supply before starting any work, servicing or maintenance on the heating/hot water system. Read all instructions before starting work on the heating/hot water system.

Arrange for annual maintenance and inspection schedule to be conducted by a competent person on every part of the heating/hot water system.

Safety Notice

WARNING!

Always isolate the AC mains supply before installing. This product must be installed by a qualified person and installation must comply with the guidance provided in the current editions of BS767 (IEE wiring regulations) and part "P" of the building regulations.

Installing The Cylinder Thermostat

- 1. Loosen the 3 fixing screws at the back of the cylinder thermostat (not the screws on the front of the cylinder thermostat) and insert both sensors fully into the dry pocket on your cylinder.
- 2. Position the thermostat onto the dry pocket.
- 3. Tighten the 3 fixing screws to secure the thermostat. Take care not to overtighten.
- 4. Plug the end of the cable into the ESWCPCB3CB wiring centre which is usually situated on the hot water cylinder.

Boiler Setting

The Anti Legionella boost should ideally be run once per week to ensure the cylinder water is heated to 61°C. This is carried out automatically by the ESCTDEP when the Anti-Legionella software is switched on.

The Boiler Thermostat, (Output Temperature) must therefore be set to a sufficient temperature, a few degrees above 61°C and homeowners should

be made aware that once a week, the hot water will be warmer following the automatic "Weekly Boost".

We also strongly recommend the use of a thermostatic mixing valve (TMV), these blend hot water with the cold water to ensure constant safe shower & bath outlet temperatures, preventing scalding.

Adjusting The Cylinder Thermostat

Move the dial and you will see a flashing number on the screen; this is the SET temperature and can be set between 25°C and 65°C. The lower the temperature, the less chance of scalding and the more energy will be saved. Most homeowners find a temperature between 48°C & 53°C to be adequate. When the flashing number stops flashing, you should see a solid number on the screen; this is the water temperature inside your hot water cylinder.

If the system should overheat, the cause must be determined and resolved by a qualified professional. In the event of the hot water overheating (above 80°C), the thermostat cuts out automatically and must be reset before it will operate again.

To reset your thermostat, follow these steps:

- Turn the dial down to number 1.
- Firmly, pull the dial off the thermostat.
- Where the dial was, you should see a small hole in the 11 o'clock position.
- Insert a non-metallic item into the small hole for 3 seconds to reset your thermostat.
- Replace the dial with number 1 at the top.
- Use the dial to set your desired temperature.

Setting The Anti-Legionella Boost

The ESCTDEP has user defined settings where the duration of the Legionella Override can be adjusted between 1 & 7 days or completely disabled.

To set the Anti-Legionella Boost:

1. Hold the black Holiday button on the front of the thermostat until the display switches off.

- 2. Release the Holiday button and wait for 10 seconds.
- 3. Hold the Holiday button. The water temperature will show on the screen, keep the button pressed.
- 4. When the display changes to show **Of** release the button.
- 5. Repeatedly press the Holiday button to select the number of days between Anti-legionella cycles, e.g. **1** will ensure the Anti-legionella software kicks in every day. **7** will ensure the Anti-legionella software runs once per week.
- 6. When you have selected the desired number above, wait until the display returns to show the water temperature.
- 7. Hold the Holiday button until the screen switches off again.
- 8. Wait for 10 seconds, then hold the Holiday button until the screen switches back on.

To Disable the Anti-Legionella Boost

- 1. Hold the black Holiday button on the front of the thermostat until the display switches off.
- 2. Release the Holiday button and wait for 10 seconds.
- 3. Hold the Holiday button. The water temperature will show on the screen, keep the button pressed.
- 4. When the display changes to show a number between **1** & **7**, release the button.
- 5. Tap the Holiday button until the number is replaced by **Of**.
- 6. Allow the thermostat to return to show the water temperature.

Warning: Interference with sealed parts renders the warranty void.

In the interests of continuous product improvement, we reserve the right to alter designs, specifications and materials without prior notice and cannot accept liability or errors.

We are continuously developing our products to bring you the very latest in energy saving technology and simplicity. However, should you have any questions setting up your controls please email us at tech@esicontrols.co.uk