Energy Saving Innovative Controls Limited



Heating controls & accessories

www.esicontrols.co.uk

Keep control of rising costs with ESi.

We are one of the fastest-growing heating controls and accessories manufacturers. Our full range of quality and reliable products are simple-to-use and easy-to-fit. They are value for money, meaning you can take control of your costs, and your customer's rising energy prices.

ESRTP4RFW



Trust ESi to provide high-quality, reliable and cost-effective controls and accessories.

- Save up to 15% on gas usage by using OpenTherm modulation
- Easy-to-use app, giving your customer complete control of their heating and hot water
- Programmable options which are easy to set up and simple-to-use
- Boiler Plus compliance, giving you peace of mind
- Option to personalise your customer's controls, ensuring repeat business
- Direct replacements for higher priced well-known heating brands

For more information about our complete range of products, visit www.esicontrols.co.uk Or speak to one of our local Area Sales Managers.

Contents

WiFi wireless programmable smart control	**4 - 5**
Wireless and wired programmable room thermostats	**6 - 9**
Programmable wireless heating and hot water control kit	**10 - 11**
Digital and mechanical room thermostats	**12 - 13**
Digital and mechanical room and frost thermostats	**14 - 15**
Channel programmers	**16 - 17**
Cylinder thermostats	**18 - 21**
Motorised valves	**22 - 23**
Brass Filter	**24 - 25**
Accessories	**26 - 27**
S + Y plan kits	**28 - 29**
Controls and accessories kits	**30 - 31**
Glossary	**32 - 33**



Mistral

WiFi wireless programmable smart control

Stratus

Our WiFi programmable smart controls provide your customers with an attractive looking room thermostat, which is easily controllable via our simple to use Centro app, Alexa and Google home. They are perfect for use with combi, system & heat only boilers (S plan, Y plan etc).

The controls contain energy saving features, such as optimisation and OpenTherm connectivity (load compensation).

NOW WITH BATTERY POWER FOR TOTAL CONVENIENCE AND MOBILITY.

Available in either gun metal grey or white to suit any home interior.

ESRTP6B-W



Features & benefits

Features	Benefits
OpenTherm connectivity	Can save up to 15% gas use when connected to an OpenTherm compatible boiler
Control through thermostat or via app	Easy and simple to use
Optimum start/stop	Providing cost savings
7 day, 5/2 day or 24 hour options	To suit your customer's lifestyle
Boost facility	DHW via thermostat, Centro app, Alexa and Google home
Holiday mode	For control and comfort
Can be used as an RF control	Can still control heating when there is no WiFi available offering full flexibility and peace of mind
3 year warranty*	Complete peace of mind
Boiler Plus compliant	For optimum compliance and energy efficiency saving money for homeowners
2 channel heating and hot water	Allows for Central heating and hot water to be controlled from 1 device.
Hot water time and temperature control	For full flexibility and control via your smart device to suit your lifestyle

Centro App

Centro allows your customers to control their room temperature from wherever they are by using this simple to use app. The app also allows you to remotely schedule holiday mode and boost temperatures for your return home.

Once downloaded, you can create your own unique account and share with your family members via their device if you would like multiple users. Names can be created for each zone and temperatures controlled individually.



ESRTP6B-G

Download the app and take control of your heating system.

Technical data

Model	ESRTP6B-W & ESRTP6B-G
Temperature control class	ErP class 5 (3%)
Programming	7 day, 5/2 day & 24 hour
Power supply	Battery powered
Temperature adjustment range	5° C to 35° C
Energy saving technology	Load compensation via Optional OpenTherm connection
Total switch rating	3(1)A
Switching	Suitable for Volt Free / Low Volt / 230V
Heating contact type	Volt-free SPDT COM/NC/NO
DHW contact type	Volt-free SPST COM/NO
Dimensions (main unit excluding connections)	87mm x 88mm x 14mm (w x h x d)

Wifi wireless and wired programmable room thermostat

Mistral & Cirrus

The Mistral & Cirrus are wireless and wired programmable room thermostats, available in white or grey, designed for quick installation and easy use.

The control features OpenTherm which automatically reduces the flow temperature of your heating system, helping you save up to 15% on your gas use, significantly lowering bills.

Features & benefits

Features	Benefits
Wall or stand mountable*	Flexibility for customers' needs
Available in white or grey	Options to suit customers preference
Load compensation via OpenTherm	Saves up to 15% gas use
controlling boiler modulation	Controllable via Centro App, Alexa and Google home
Large LCD display	Easy to use and read temperature
Optimum start/stop	Providing cost savings
Thermostat and receiver pre-paired from factory	For easy installation and set-up
7 Day, 5-2 Day or 24-hour programming options	To suit your customer's lifestyle
Pre-set built-in programmes	For quick set-up
Automatic summer/winter change	For convenience and comfort
Select up to 6 time and temperature events	Complete flexibility
Boiler Plus compliant	Meeting required standards
Installer name and phone number stored for annual service	Encourages repeat business for installers
3 year warranty*	Complete peace of mind

*To qualify for the full extended warranty, register your product at www.esicontrols.co.uk. Otherwise, a standard 12-month warranty applies. See our website for full terms and conditions.



*(cirrus available as wall mount only)

Technical data

Model	Mistral	Cirrus
Battery	2 x AA	2 x AA or power over OpenTherm**
Connection	Wireless	Wired
Power supply	230V power supply for RF reciever	2 x AA
Temperature control class	ErP class 5 (3%)	ErP class 5 (3%)
Programming	7 Day, 5-2 Day or 24-hour	7 Day, 5-2 Day or 24-hour
Temperature adjustment range	5° C to 35° C	5° C to 35° C
Energy saving technology	OpenTherm technology and Wifi	OpenTherm technology (Optional WiFi upgrade available)
Service interval timer	Set service due date	Set service due date
Switching	Suitable for Volt Free / Low Volt / 230V	Suitable for Volt Free / Low Volt / 230V
Dimensions	D = 29mm W = 92mm H =92mm	D = 29mm W = 92mm H =92mm

** With power over OpenTherm, the thermostat can be powered just from the OpenTherm connection with no need for batteries.

Wireless and wired programmable room thermostats

Pacific ESRTP4+ & Atlantic ESRTP4RFW

FREE LASER ENGRAVING AVAILABLE



Please contact your Brand Ambassador or Regional Sales Manager for more information, contact details can be found at **www.esicontrols.co.uk.**

Our programmable room thermostats are cost effective, easy-to-use and are packed with energy saving features. Available in both wired and wireless options, they are suited for use in any domestic heating installation

The wired programmable thermostat is simple-to-use and install. Its LCD screen is backlit, making it easy to programme and control room temperatures. The wireless programmable thermostat removes the need for any fixed wiring between the thermostat and boiler, reducing the installation time even further and the need for any disruption to your customer's home interiors. Both thermostats offer a landlord service internal, making it a perfect choice for social housing.

The ESRTP4RFW can be controlled through the Centro App, Alexa and Google home when installed with a WiFiHUB (sold separately).



Sold separately

ESWIFIHUB
The ESi WiFi Hub is a USB-powered device that transforms ESi compatible controls into smart devices for control via Alexa, google home or the Centro App.

Technical data

Model	ESWIFIHUB
Power Supply	5V USB Adaptor
Frequency	2.4 GHZ
Software	ESi Centro app (see Page 5)

Features & benefits

Features	Benefits
Load compensation via OpenTherm	Saves up to 15% gas use by controlling boiler modulation
Free laser printing	Encourages repeat business from your customer
Optimum start/stop and delayed start	Providing cost savings
7 day, 5/2 day or 24 hour options	To suit your customer's lifestyle
Automatic summer/winter change	For convenience and comfort
4 or 6 events per day	Complete flexibility
Large LCD display	Easy to read temperature and set comfort levels
Battery powered thermostat (with low power indicator)	Quick installation
Auto, manual, all day and holiday modes	Complete control and comfort to suit your customer's needs
Boiler Plus compliant	Meeting required standards
Landlord service interval reminder	Perfect for social housing use
3 year warranty*	Complete peace of mind

*To qualify for the full extended warranty, register your product at www.esicontrols.co.uk. Otherwise, a standard 12-month warranty applies. See our website for full terms and conditions.

Technical data

Model	ESRTP4+	ESRTP4RFW
Battery	2 x AA	2 x AA
Hard-wired (built-in sensor)	✓	-
Wireless (built-in sensor complete with receiver)	-	✓
Power supply	2 x AA or power over OpenTherm**	230V RF Receiver & 2 x AA batteries for the thermostat
Temperature control class	ErP class 5 (3%)	
Programming	7 day, 5/2 day & 24 hour	
Temperature adjustment range	5° C to 35° C	
Energy saving technology	TPI control, Delayed start/stop, optimum start/stop, OpenTherm technology	
Service interval timer	28 to 366 days	
Switching	Suitable for Volt free / Low volt / 230V	
Dimensions	127mm x 81mm x 28mm (w x h x d)	

** With power over OpenTherm, the thermostat can be powered just from the OpenTherm connection with no need for batteries.

Programable wireless heating and hot water control kit

ES3PRFK RF Kit

Our new programmable wireless RF kit is a quick and easy heating and hot water controls solution for a new or replacement boiler and cylinder. Each handy kit is supplied with a Wireless Room Thermostat, Wireless Cylinder Thermostat and RF 3 Channel Programmer for complete convenience, and is suitable for controlling the heating and stored hot water via a system or heat only boiler.

The RF programmer is simple-to-use and install. Its large LCD screen is backlit, making it easy to programme and control heating and hot water temperatures. The system can be upgraded to be smart by purchasing the ESi Controls WiFi hub, allowing complete control via your customer's smart device, Alexa, Google Home and ESi Centro app. There is also an option to add a second room thermostat which can easily connect to the kit for larger properties.

Features & benefits

Features	Benefits
RF connection	Quick and easy to install without disturbing decor
Upgradable to smart control with ESWIFIHUB	Control via a smart device app, providing further energy savings
7 day, 5/2 day or 24 hour operation	To suit your customer's lifestyle
Automatic summer/winter change	For complete convenience
Large LCD display	Easy to read room temperature and to set heating times
Battery powered (with low power indicator)	Quick installation offering flexible position
Once, auto, on, off and holiday modes	Complete flexibility
3 year warranty*	Complete peace of mind
Wall or stand mount	To suit most installations
RF cylinder thermostat	Allows accurate control of your stored hot water temperature to maximise energy savings
Option for 2nd heating zone	Easy to upgrade for larger properties

*To qualify for the full extended warranty, register your product at www.esicontrols.co.uk. Otherwise, a standard 12-month warranty applies. See our website for full terms and conditions.



Technical data

Model	ES3PRFK
Battery	2 x AAA in each thermostat
Wireless (built-in sensor complete with receiver)	✓
WiFi upgrade available	With the purchase of ESWIFIHUB
Power supply	230V RF 3 Channel Programmer
Temperature control class	ErP class 4 (2%)
Programming	7 day, 5/2 day & 24 hour
Temperature adjustment range	Room Thermostat is 5C to 35C Cylinder thermostat is 25C to 65C
Service interval timer	28 to 366 days
Switching	Suitable for 230V Not suitable for Volt Free or Low Volt
Dimensions (room unit & cylinder thermostat)	89mm x 85mm x 24mm (w x h x d)



ESRTPRFK-1
Extra Thermostat is optional

Digital and mechanical room thermostats

ESRTERFW, ESRTD3, ESRTD2

Wireless digital room thermostat

ESRTERFW

This economical and simple to use room thermostat is operated by simply turning the control dial to the desired room temperature displayed on the LCD screen. Quick and easy to install with no mess and can be located in any room in your customer's home.



Digital room thermostat with TPI and delayed start

ESRTD3

The wired version of the digital room thermostat features delayed start which delays the start-up dependant on how close to set-point the room temperature is at the time the heating is scheduled to turn on. This saves energy without compromising on comfort.



Digital room thermostat with TPI

ESRTD2

This battery powered thermostat features a TPI function which is set at time of installation via the easy change DIP switch. This micro-processor based control system will deliver increased comfort and energy savings by optimising water temperature.



Features & benefits

Features	Benefits
Choice of 6 different digital and mechanical thermostats	Providing customer choice
Economical solution	Making the products affordable for any customer
Fits on easy fit back plate	Perfect for replacements and quick to install
Easy to use with a simple LCD display and dial	Easy temperature adjustment
TPI control	Energy savings
Heating on indicators	For complete control
3 year warranty*	Complete peace of mind

*To qualify for the full extended warranty, register your product at www.esicontrols.co.uk. Otherwise, a standard 12-month warranty applies. See our website for full terms and conditions.

Technical data

Model	ESRTERFW	ESRTD2	ESRTD3
Wireless	✓		
Wired		✓	✓
Power supply	(Tx) 2 x AA/1.5V batteries	2 x AA/1.5V batteries	230VAC, 50Hz
Switching	Suitable for Volt Free / Low Volt / 230V	Suitable for Volt Free / Low Volt / 230V	Suitable for 230V Not suitable for Volt free / Low volt
Switch rating/ Current rating	(Rx) 3(1)A 230VAC	3(1)A 230VAC (Volt free)	3(1)A 230VAC
Temperature control class	ErP Class 4 (2%)		
Energy efficient features	TPI (Chrono-proportional) control		TPI Control, delayed start
Temperature setting rating	5°C to 30°C		
Terminal differential	<0.6°C at 4°/hour		
Dimensions	85mm x 85mm x 35mm (w x h x d)		

Digital and mechanical room and frost thermostats

ESRTE2, ESRTM, ESFTE

Features & benefits

Features	Benefits
Choice of 6 different digital and mechanical thermostats	Providing customer choice
Economical solution	Making the products affordable for any customer
Fits on easy fit back plate	Perfect for replacements and quick to install (excluding ESRTM)
Easy to use with a simple dial	Easy temperature adjustment.
Heating on indicators	For complete control (excluding ESRTM
3 year warranty*	Complete peace of mind

*To qualify for the full extended warranty, register your product at www.esicontrols.co.uk. Otherwise, a standard 12-month warranty applies. See our website for full terms and conditions.

Technical data

Model	ESRTE2	ESFTE	ESRTM
Power supply	230V AC 50-60Hz		
Switch rating/ Current rating	3(1)A 230V AC		10 (3) Amp (Voltage free)
Temperature control class	ErP Class 1 (1%)		
Energy efficient features	Basic on/off thermostat		
Switching	Suitable for 230V Not suitable for Volt Free / Low Volt	Suitable for 230V Not suitable for Volt Free / Low Volt	Suitable for Volt Free / Low Volt / 230V
Temperature setting rating	5°C to 30°C	3°C to 10°C	10°C to 30°C
Terminal differential	<0.6°C at 4°/hour		Approx. 4°C
Dimensions	85mm x 85mm x 35mm (w x h x d)		83mm x 83mm x 35mm (w x h x d)

We offer a comprehensive range of wired, non-programmable thermostats which provide temperature control by sensing the air temperature and switching the heating on when the temperature falls below the selected thermostat setting.

From modern, energy efficient digital models, to a simple dial operated mechanical control, we have a solution for every customer.

Electronic room thermostat

ESRTE2



This economical room thermostat is designed to provide close accurate temperature control by using a simple to use dial. It features a neon indicator that lights up when the system is calling for heat. The control requires a live and neutral power supply.

Mechanical room thermostat

ESRTM



The mains voltage mechanical room thermostat is an economical and easy-to-use control, suitable for systems with either a combi, system, or heat-only boiler. However, when used with a combi boiler, it would not meet Boiler Plus compliance requirements.

Digital frost thermostat

ESFTE



This mains voltage, electronic frost thermostat is designed to give automatic frost protection to boilers and pipework by installing it in high risk areas as well as the fabric of the building. Simple to install surface mount design with electronic accuracy to improve system efficiency and protection.

Channel programmers

ES3247B, ES2247B, ES1247B & ES1247B16A (Immersion Timer)

Our range of programmers are suitable for use in any domestic heating and hot water installation (S or Y plan). We offer a range of multi-purpose programmers to suit your customer's needs, and each with the flexibility of two or three on/off timings per day. All our programmers fit on an industry standard or easy fit back plate, making it the perfect replacement option, often without the need for rewiring.

3 Channel multi-purpose programmer



ES3247B

Our three channel programmer offers three completely independent time controlled channels, ideal for the control of two heating zones, and hot water. Zoning the heating of your customer's home can save energy. This also complies with Part L of the Building Regulations by providing separate timed heating for living and sleeping zones.

2 Channel multi-purpose programmer



ES2247B

Our two channel programmer offers the flexibility of two or three on/off timings per day and can be configured for 7 day, 5/2 day or 24 hour operation. It is designed to control heating and hot water separately, again providing energy efficient solutions.

1 Channel multi-purpose programmer (Including 16 Amp Option)



ES1247B & ES1247B16A (Immersion timer)

Our single channel programmer is an electronic switch which provides volt-free output contacts making it ideal for use with both line voltage and low voltage control circuits. This is ideal for use with combi or system boilers having a common heating and hot water zone, and for the control of additional heating with a 16 amp model available for hot water cylinder immersion time control.

Features & benefits

Features	Benefits
Choice of 4 different programmers to suit your application	Providing customer choice
2 or 3 on-off options per day	To suit your customer's lifestyle
16 amp model available	Suitable for switching immersion heaters in a hot water cylinder providing accurate control over hot water requirements
Extra hour facility, for up to 3 hours of boost or programme extension	Offering complete control
Automatic summer/winter change	For convenience and comfort
Large LCD display	Easy programming of time and date
Fits on easy fit back plate	Perfect for replacements
Holiday mode	To save energy
Landlord service interval reminder	Option for social housing
3 year warranty*	Complete peace of mind

*To qualify for the full extended warranty, register your product at www.esicontrols.co.uk. Otherwise, a standard 12-month warranty applies. See our website for full terms and conditions.

Technical data

Model	ES3247B	ES2247B	ES1247B 16A	ES1247B
Single channel time switch			✓	
2 channel, with independent timebase		✓		
3 channel, with independent timebase	✓			
Pumped or gravity hot water option	✓	✓		
Switching	Suitable for 230V Not suitable for Volt free / Low volt			Suitable for Volt Free / Low Volt / 230V
Programming	7 day, 5/2 day or 24 hour operation			
Output channels	Independent DHW & CH		Single	
Advance override	Per channel			
Hour override	+1/+2/+3 hours override per channel			
Voltage rating	230 Vac 50Hz			24V & 230V
Contact rating	6(2)A		16(4)A	6(2)A
Dimensions	140mm x 90mm x 30mm (w x h x d)			

Cylinder thermostats

ESCTD, ESCTS, ESCTL/ ESCTTP

Features & benefits

Features	Benefits
Mechanical and electronic versions available	Providing customer choice
Pipe or cylinder fitting	To suit your installation
Large temperature range	For complete comfort
Tamper proof options available	Ideal for social housing and rental properties
Simple user operation	Easy to set and control
Double insulated	For protection and safety
Quick to install	Saving time
3 year warranty*	Peace of mind

*To qualify for the full extended warranty, register your product at www.esicontrols.co.uk. Otherwise, a standard 12-month warranty applies. See our website for full terms and conditions.

Technical data

Model	ESCTD	ESCTS	ESCTL & ESCTTP
Switch action	-	S.P.D.T Type 1CL	
Contact rating	-	16(4)A 230V	
Operation range	Min 25°C – Max 65°C	Min 0°C – Max 80°C	Pre-set to 80°C (high limit) or Min 0°C to 90°C
High limit set point	80°C	-	-
Tolerance	Min + 6°C – Max 4°C		
Tolerance (limit thermostat)	+0°C 8°C	-	-
Differential	+/4°C	+8°C	
Differential (limit thermostat)	15°C - 25°C	-	-
Temp of thermostat head	T85	-	-
Max surface temp	-	110°C	
IP Rating	-	IP40	
Rated impulsive voltage	4kV	-	-

Our range of electronic and mechanical cylinder thermostats are used for control and limitation of water temperature in the hot water cylinder and other applications requiring immersion thermostats.

Mechanical dual cylinder thermostat

ESCTD



The mechanical dual thermostat combines both the controller and limit thermostats into one unit, requiring only one direct immersion well. The controller and limit stat heads are provided with a jumper to minimise wiring. The thermostat controller has an external adjustment, while the limit has concealed adjustment with a manual reset feature.

Clamp-on cylinder thermostat

ESCTS



The clamp-on option is specifically designed for the control of domestic hot water and can provide energy savings when set between the recommended 60°C - 65°C. Supplied complete with a mounting strap and a spring for the heating pipework, this control can be easily fit to existing appliances and pipework. The bimetallic sensor ensures accurate hot water temperature control and can be used to safely control a wet central heating circulating pump to boiler, or to operate zone valves.

Single cylinder thermostat including high limit model

ESCTTP / ESCTL



This pocket mounted mechanical cylinder thermostat is available in both standard and high limit, which is pre-set to 80°C. The liquid filled bimetallic probe is inserted into the well of a cylinder and provides accurate hot water temperature control when used in an unvented hot water cylinder. Additionally, the control is tamper proof, providing peace of mind.

Cylinder thermostats

ESCTDEB, ESCTP-RF, ESCTP5-RF, ESCTP5-W

Wireless cylinder thermostat
(Battery powered)

ESCTP-RF



The ESCTP-RF is an upgrade for homes fitted with an unvented hot water cylinder to allow the hot water control to be available with the ESRTP6B 4Touch* ESRTP8W or ES3PRFK* to allow complete control over your heating and hot water needs via the ESi Centro app.

* when fitted with the ESIWIFIHUB | Must be used in conjunction with either; ESRTP4TOUCH,ESRTP6B, ESRTP8W or ES3PRFK

RF & WiFi programmable cylinder thermostats

ESCTP5-RF/ESCTP5-W



Our programmable cylinder thermostats provide a forward-thinking alternative to traditional cylinder thermostats with the ability to programme a schedule directly on the unit itself with a large LCD display. The dial on the side of the control makes it easy to change the temperature set point. We also offer a WiFi option, which can be controlled via Alexa, Google Home and the ESi Centro app.

Works wirelessly when linked with either;
ESRTP6B (stratus) or ESRTP8W (mistral)

Electronic dual cylinder thermostat with adjustable boost

ESCTDEB



This energy saving control is designed with safety in mind. It features an adjustable 'boost' to over 61°C, disinfecting the hot water cylinder, killing any trace of legionella bacteria. This also means that the water can be stored at a lower temperature safely, meeting building regulations and resulting in substantial energy saving.

Technical data

Model	ESCTP-RF	ESCTP5-RF ESCTP5-W	ESCTDEB
Power supply	2 x AAA batteries	230VAC with wall mount	230VAC 50-60Hz
Switch rating/action	3(1)A		S.P.D.T (control), S.P.S.T (limit) 230 VAC 6(1)A
Temperature control class	ErP Class IV (2%)		
DHW contact type	No AC power supply	Volt-free SPDT COM/NC/NO	-
Energy efficient features	-	TPI Control	-
Temperature sensor type	Multi-thermistor with intelligent compensation		-
Temperature accuracy	+/- 1°C @ 20°C		-
Programming	7 day, 5/2 day or 24 hour operation		-
Programmable events	-	4 or 6 per day	-
Temperature setting rating	25°C to 65°C	25°C to 65°C	25°C to 65°C
Clock	-	Wi-Fi version only. ESCTP5-RF only when connected to ESRTP6B or ESRTP8W	-
WiFi	-	2.4GHz IEEE802.11b/g/n (Wi-Fi version only)	-
RF	868Mhz		-
Limit thermostat	-	-	80°C with concealed manual reset
Tolerance (Limit thermostat)	-	-	2°C
Switching	Needs to be paired with compatible device	Suitable for Volt Free / Low Volt / 230V	Suitable for 230V Not suitable for Volt free / Low volt
Dimensions	89mm x 85mm x 24mm (w x h x d)	95mm x 93mm x 14mm (w x h x d)	110mm x 92mm x 48mm (w x h x d) Excl. flanges

Motorised zone valves

ESZV222LM, ESZV222PM, ESZV223LM, ESZV282LM, ESZVA2LM, ESZVA2PM, ESZVA3LM

Features & benefits

Features	Benefits
Direct replacements for higher priced well known heating brands	Cost effective replacement option
Replacement actuator head and motor	Quick and easy to exchange
Spring return action	Simple to use
Manual lever	Solution for filling/draining the system
Complete with lead	No need to buy additional power supply
Industry standard wiring	No additional training required
2/5 year warranty	Complete peace of mind

Technical data

Model	ESZV222LM	ESZV222PM	ESZ282LM	ESZVA3LM
Size	22mm	22mm	28mm	22mm
Valve type	2 port	2 port	2 port	3 port
Hard wired/ plug in	Hard wired	Plug in	Hard wired	Hard wired
Replacement actuator	ESZVA2LM	ESZVA2PM	ESZVA2LM	ESZVA223LM
Supply voltage	220-240V AC, 50/60Hz			
Power consumption	5W			
Fluid temp min-max	+5°C to +88°C			
Operating temp	+5°C to +50°C			
Auxiliary switch rating	250V AC 4A			250V AC 3A
Max static pressure	8 Bar			
Max close-off pressure	1 Bar			0.69 Bar

Our range of motorised valves are easy-to-fit, with a simple on/off detachable actuator head and are a cost-effective direct replacement for other leading manufacturers. Engineered to reduce wear and noise providing exceptionally quiet operation and extends the life of the valve.

2 Port zone valve 22mm & 28mm

ESZV222LM, ESZV222PM, ESZV282LM

These 2 port motorised zone valves are a cost effective replacement for other leading manufacturers and available in both 22mm and 28mm. They have been designed to be suitable for all domestic homes, as well as light commercial applications.





For pre-plumbed systems (PM)



Manual wiring (LM)

3 Port valve 22mm

ESZV223LM

Our 3 port motorised zone valves are easy-to-fit, with a simple clip on/off detachable actuator head and cable. The spring return valve has been designed for use in light commercial and industrial applications, as well as in domestic homes. When wired with the appropriate room thermostat, cylinder thermostat and programmer, will control the water flow in the system.



Actuator head

ESZVA2LM, ESZVA3LM, ESZVA2PM

The detachable actuator head is a simple replacement option, with no need to drain the system down. Designed to suit both 22mm and 28mm port zone valves and clips directly onto the body, making it an quick and cost effective replacement for other leading brands.





For pre-plumbed systems (PM)



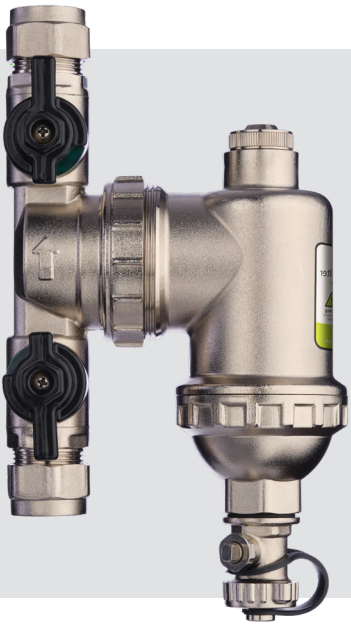
Manual wiring (LM)

Magnetic Filter (22mm)

ESBMF22

This high-performance magnetic filter is designed with durability and ease of use in mind. Featuring a robust brass construction, it ensures long-lasting reliability, while its powerful 10,000 gauss magnet efficiently captures debris from your heating system. The built-in isolating valves allow for effortless servicing without system drainage, and its versatile design makes it suitable for both horizontal and vertical installations.

Quick and simple to install, the filter also provides easy access for chemical dosing and maintenance, making it a smart, practical solution for improving system efficiency and protecting critical components.



- Brass casing
- Isolating valve
- Powerful 10,000 gauss magnet
- Fits horizontal or vertical

ESBMF22



Features & benefits

Features	Benefits
Durable brass construction	Long lasting reliability
Powerful 10,000 gauss magnet	Efficiently captures debris
Built-in isolating valves	Easy servicing
Fits horizontal or vertical	For flexibility
Simple and quick installation	For quick set-up
Accessible for chemical dosing	For quick and easy maintenance
Easy maintenance	For quick servicing
10 year warranty	Complete peace of mind
Magnet held in dry pocket	Ensures long-lasting performance.
Triple o rings on the manifold	Provides durability and long-term reliability.

Accessories

ESWC1, ESAVBCV, ESAVB15C, ESABV22, ESABV22S

Our controls range is complimented by a series of accessories designed to work in all current commercial and domestic homes.

Wiring centre

ESWC1



This 12-way wiring centre is designed to be a safe and convenient method of system wiring. With a dedicated terminal block for each system component, this is a simple and quick solution to wiring and circuit testing. This is suited to all popular heating systems and manufactured in a robust fire retardant ABS.

Technical data

Model	ESWC1
Voltage rating	230V 50/60Hz
Current rating	10A
Fuse rating	2A 230V 50Hz
Protection	IP20
Max. Ambient Temp	55°C

Automatic bypass valve
ESABV22, ESABV22S



This automatic bypass valve maintains water flow in central heating systems with TRVs, ensuring a minimum flow rate through the boiler and limiting circulation pressure. It reduces noise from TRVs or zone valves closing and prevents pump impeller wear due to high flow resistance. Enhancing the boiler's heat exchanger life, it ensures continuous minimum flow and saves energy.

Automatic air vent
ESAVBCV, ESAVB15C



Automatic air vents are designed for heating systems and other closed circuit hot water systems which require the efficient, automatic removal of air when a system is filling with water, often eliminating the need for a system bleed. This vent can be fitted anywhere in the positive pressure side of the system where air is likely to be trapped.

Technical data

Model	ESABV22	ESABV22S	ESAVBCV	ESAVB15C
Connections	22mm		3/8 & ½ inch	15mm compression fitting
Differential pressure range	0.05 to 0.5		-	-
Max working pressure	16 Bar		6 Bar	
Working pressure	120°C Intermittent		110°C Maximum	
Valve body material	-		Brass	

Controls and accessories kit

ES2SPLAN, ES2YPLAN

Y plan kit

ES2YPLAN



This kit contains the following controls and accessories and is ideal for a Y plan system:

• 2 Channel programmer	ES2247B
• 3 Port motorised zone valve	ESZV223LM
• Electric room thermostat	ESRTE2
• Clamp-on cylinder thermostat	ESCTS
• 12 Way wiring centre	ESWC1

Kit upgrades

There is opportunity to upgrade the S and Y plan kits with a programmable room thermostat and a single channel programmer for full temperature control.

Should an additional heating zone be required, our S Plan Kit can be facilitated with the addition of another 2 port zone valve and either upgrading to a three channel programmer and a second electronic room thermostat, or by adding a programmable room thermostat.

Our range of kits provide a simple and highly cost-effective way to purchase a complete heating and hot water control system. This is the perfect solution for a combi boiler or traditional S/Y plan system. The products are pre-packed for ease, and contain our leading, high quality, reliable and efficient controls and accessories – providing complete control.

The packs come with a 3 year warranty, providing your customer with peace of mind. A range of kits are available, please see further details on page 28.

S plan kit

ES2SPLAN



This kit contains the following controls and accessories and is ideal for an S plan system:

• 2 Channel programmer	ES2247B
• 2 x Motorised zone valves	ESZV222LM
• Electric room thermostat	ESRTE2
• Clamp-on cylinder thermostat	ESCTS
• 12 Way wiring centre	ESWC1

Available in both 22mm and 28mm sizes

Controls and accessories kit

Kit options (wall mounted and hard wired)

Product Code	Pack Description	Contents
CPC1ZP	1 Zone Combi Pack	1 x ESRTP4+
CPC2ZP	2 Zone Combi Pack	2 x ESRTP4+
		2 x ESZV222LM
		1 x ESWC1
CPC1ZP5	1 Zone Combi Pack	1 x ESRTP5
CPC1ZP5WF	1 Zone Combi Pack With Wi-Fi	1 x ESRTP5WF
CPC2ZP5	2 Zone Combi Pack	2 x ESRTP5
		2 x ESZV222LM
		1 x ESWC1
CPC2ZP5WF	2 Zone Combi Pack With Wi-Fi	2 x ESRTP5WF
		2 x ESZV222LM
		1 x ESWC1
CPC1ZP6C	1 Zone Combi Pack	1 x ESRTP6C
		1 x ESRTP6CPS1Z
CPC1ZP6CWF	1 Zone Combi Pack With Wi-Fi	1 x ESRTP6CWF
		1 x ESRTP6CPS1Z
CPC2ZP6C	2 Zone Combi Pack	2 x ESRTP6C
		1 x ESRTP6CPS2Z
		2 x ESZV222PM
CPC2ZP6CWF	2 Zone Combi Pack With Wi-Fi	2 x ESRTP6CWF
		1 x ESRTP6CPS2Z
		2 x ESZV222PM
CPC2ZP6COT	2 Zone Combi Pack With OpenTherm	2 x ESRTP6COT
		1 x ESRTP6CBOT
		2 x ESZV222PM
CPC2ZP6CWOT	2 Zone Combi Pack With Wi-Fi & OpenTherm	2 x ESRTP6CWOT
		1 x ESRTP6CBOT
		2 x ESZV222PM

	Product Description
	Series 4 Programmable Room Thermostat
	Series 4 Programmable Room Thermostats
	22mm 2 Port Zone Valves (leads)
	Standard Wiring Centre
	Series 5 Programmable Room Thermostat
	Series 5 Wi-Fi Programmable Room Thermostat
	Series 5 Programmable Room Thermostats
	22mm 2 Port Zone Valves (leads)
	Standard Wiring Centre
	Series 5 Wi-Fi Programmable Room Thermostats
	22mm 2 Port Zone Valves (leads)
	Standard Wiring Centre
	Series 6 Programmable Room Thermostat
	1 Zone Wiring Centre for Series 6 Thermostat
	Series 6 Programmable Room Thermostat With Wi-Fi
	1 Zone Wiring Centre for Series 6 Thermostat
	Series 6 Programmable Room Thermostats
	2 Zone Wiring Centre for Series 6 Thermostat
	22mm 2 Port Zone Valves (Pre-Plumb Plug)
	Series 6 Programmable Rooms Thermostat With Wi-Fi
	2 Zone Wiring Centre for Series 6 Thermostat
	22mm 2 Port Zone Valves (Pre-Plumb Plug)
	Series 6 Programmable Rooms Thermostat
	2 Zone Wiring Centre for Series 6 Thermostat With OpenTherm
	22mm 2 Port Zone Valves (Pre-Plumb Plug)
	Series 6 Programmable Rooms Thermostat With Wifi & OpenTherm
	2 Zone Wiring Centre for Series 6 Thermostat With OpenTherm
	22mm 2 Port Zone Valves (Pre-Plumb Plug)

Glossary

Energy saving technology

Boiler Plus Compliance
As part of the Government's Clean Growth Strategy, Boiler Plus sets out the minimum requirements when installing boilers in existing buildings to meet Part L of the Building Regulations. The Regulations state that all modern boiler installs must include either a smart, load or weather compensation control or a flue gas heat recovery unit. ESi offers the latest smart control technology to not only meet these Regulations, but to provide additional energy saving features.

OpenTherm
OpenTherm is a point-to-point communication system which connects the heating controls with the gas boiler. In doing so, the technology modulates the temperature flow through the heating system, saving up to 15% in gas usage.

ErP energy efficiency ratings
The Energy-related Products Directive is designed to improve the efficiency of energy using products. The ratings detailed against each product in this guide can be used to create the energy efficiency label, clearly communicating to your customer the energy being used by the heating system.

Landlord service interval reminder
The ESi programmable controls range all include a landlord service interval reminder. This feature sends a scheduled maintenance alert when the boiler service is due, helping landlords meet the boiler servicing requirements of Gas Safety Regulations. The temperature and heating operation can also be restricted should the boiler not be serviced, making them the perfect choice for social housing. By servicing annually, this ensures the boiler is running efficiently.

The cost of living is at its highest level in a decade, with household energy bills being the largest expense. (Energy Saving Trust)

TPI control
Time proportional integral (TPI) provides close accurate temperature control and increases boiler efficiency. It does this by firing the boiler at regular intervals, adjusting firing duration with demand to maintain set room temperatures. TPI thermostats can provide great energy and cost savings of up to 10%.

Optimum start/stop
Optimum start adjusts the starting time of the heating, depending on the current room temperature. Instead of setting an arbitrary time for the heating to come on, your customer programmes the time the home should be at the desired temperature. Up to 10% of energy costs can be saved as the warmup time is automatically reduced according to the ambient temperature.

Optimum stop saves energy by switching the boiler off a little earlier than the programmed OFF time. However, if the house is up to temperature, the effect on the temperature should not be noticed.

Delayed start
Delayed start delays the start-up of the heating, depending on how warm the room temperature is when the central heating is due to come on. The heating start can be delayed for up to 45 minutes if the room is already relatively warm, when the weather is milder for example. This often reduces how long the heating is on per day, with no comfort loss, saving energy and cost. The delayed start feature can be fully automated and needs no extra programming.

Mistral

Wireless Programmable Room Thermostat



ESi's latest Mistral thermostat is quick to install, easy to use and packed with smart features.

Choose the smart option - fit the Mistral today.

The Smart Choice.
All Round.



Energy Saving Innovative Controls Limited

ESi Controls Ltd
Unit 21 Angelvale
Top Angel
Buckingham Industrial Park
Buckingham
MK18 1TH

T: +44 (0) 01280 816 868
F: +44 (0) 01280 816 691

sales@esicontrols.co.uk
www.esicontrols.co.uk

Technical support: +44 (0) 01280 816 868

Follow us:

Whilst ESi Controls takes all reasonable steps to design and manufacture our products to comply with the requirements of the Health & Safety at Work Act 1974, all products must be properly installed and used. Purchasers are reminded that their obligations under the Act are to ensure that the installation and operation of such products should be safe and without risk to health.

ESi Controls reserves the right at any time and without notice to change any product or information contained within this publication.

Version 12 © ESi Controls Limited 2026. All rights reserved.