

Lifestyle LP522 Electronic Programmer

The LP522 is a 5 day/2 day programmer which allows, with the appropriate system, separate time control of central heating and hot water at different times on weekdays and weekends.

A wall-plate with wiring terminals is provided, however, the LP522 will plug directly onto existing wallplates of some popular programmers without any rewiring.

Use existing wall-plate when replacing:

Potterton Miniminder, Glow-worm Master-Mind, any Landis & Staefa programmer, or ACL Lifestyle LS522.

Use new LP522 wall-plate when replacing others - consult table below for terminal reference comparisons.

Make	Model	Terminals							
Invensys	Lifestyle LP522	E	N	L	1	2	3	4	
ACL	2000	E	N	L	HW	CH	HW	CH	
	MP				Off	Off	On	On	
	FP		2	1			6	10	
Honeywell	ST699B		N	L	7	4	6	3	
Horstmann	Amethyst 7 & 10	E	2	1	4	6	5	7	
	Coral	E	2	1		8	4		
	Diadem/Electronic	E	N	L	3	6	1	4	
	Diamond	E	N	L			2	4	
	Gem	E	2	1	6	9	4	7	
	Leucite	E	2	1	8	4	3	6	
Potterton	EP2000/3000	E	N	L	1	2	3	4	
Danfoss Randall	922	E	N	L	1	4	3	6	
	102		5	6			1	2	
	3060/3020P	E	7	6			4	2	
	4033	E	7	6	5	3	4	2	
	701	E	N	L			3	1	
	702	E	N	L	4	2	3	1	
Sangamo	410 F1, F9 & F414	E	4	3	2	7	1	8	
	M5		4	3			1	8	
Sunvic	DHP2201	E	1	2	8	5	6	3	
	ET1401/1451	E	1	2	8	5	7	4	
Smiths	Centroller 1000	N	L		1	2	3	4	
Switchmaster	400 & 600	N	L				3	1	
	805, 900, 9000, 9001	N	L		4	2	3	1	
Thorn	Microtimer	N	L		7	4	6	3	
Towerchron	T2002		N	L			HW	CH	
	T2000 & T2003	E	N	L	HW	CH	HW	CH	
					Off	Off	On	On	

Before Installation

Set the link on the back of the programmer to P or G according to the type of system.

P - Fully PUMPED and controlled system, allowing heating and hot water to be selected separately.

G - GRAVITY fed hot water system which does not permit heating to be on without hot water. It is possible to have hot water without heating.

Installation

MAKE SURE MAINS INPUT HAS A 3 AMP FUSE

Installation should be carried out by a qualified electrician or heating engineer.

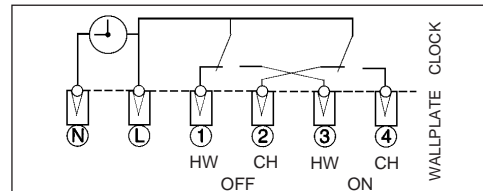
Using EXISTING WALL-PLATE

Switch off mains. Loosen the securing screws on the old programmer and unplug it. Check that there is 70mm clearance to the right of the wall-plate and 25mm above it.

Plug the LP522 onto the wall-plate. Re-tighten securing screws. **Check fuse (3A)** and switch on mains. Set timing and programme as detailed in the User guide.

Fitting NEW WALL-PLATE provided

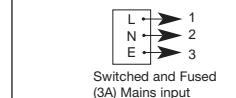
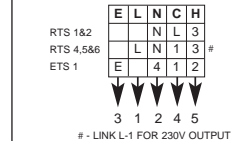
Position the wall-plate with 70mm clearance to its right, 25mm above and access to the securing screws underneath. Ensure that the supporting surface will fully cover the back of the programmer. The ideal location is 1.4M above floor level, accessible, reasonably lit and free from condensation or extremes of temperature.



*Thermostat Key

C	Common	N	Neutral
H	Call for Heat	E	Earth
S	Satisfied	L	Live

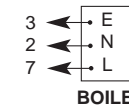
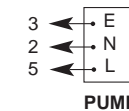
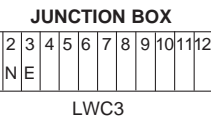
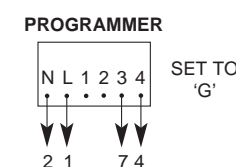
ROOM THERMOSTAT



† For pump overrun boilers consult manufacturer's instructions

* See Thermostat Key

Gravity HW, Pumped CH with Room Stat



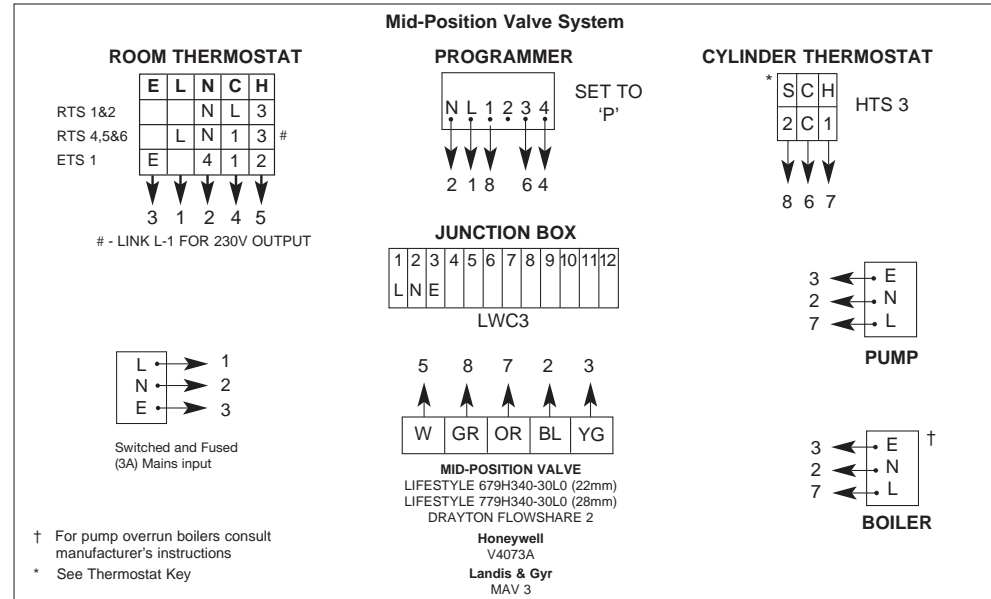
Connection Charts

Arrowed numbers relate to the junction box.

Consult boiler handbook for details of pump overrun wiring.

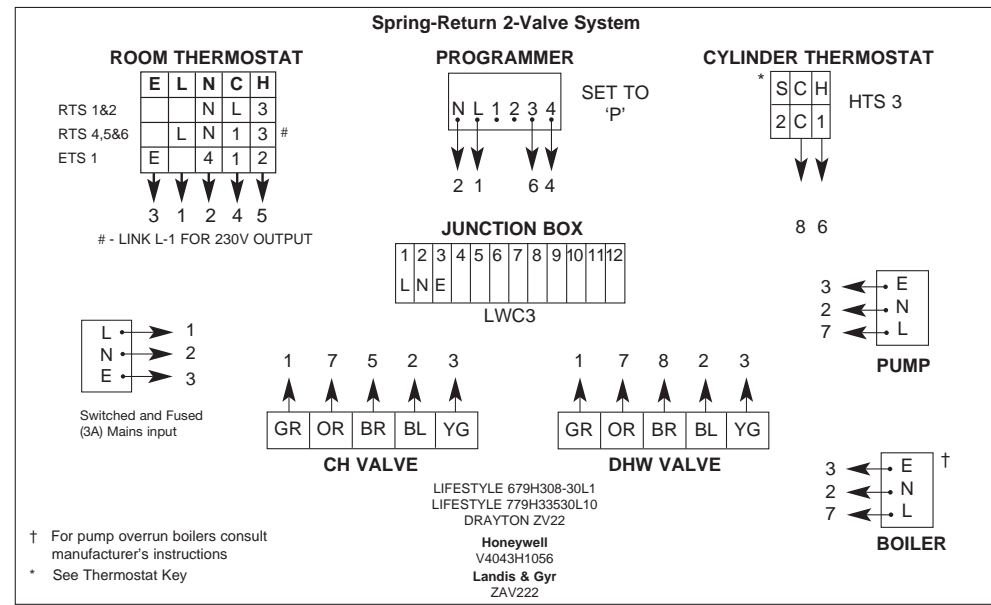
Wiring colour codes:

GR	Grey	RD	Red
Y	Yellow	W	White
BK	Black	OR	Orange
BL	Blue	YG	Yellow/Green
BR	Brown		



† For pump overrun boilers consult manufacturer's instructions

* See Thermostat Key



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* See Thermostat Key

LP522 5 Day/2 Day Electronic Programmer

The Lifestyle LP522 programmer will automatically switch your system ON and OFF once or twice a day, whichever you wish and at whatever times you choose. Weekend times can be different from weekday times.

It has the advantage of a battery back-up system

to protect the programme timings during power cuts or shut-downs.

If you have a fully-pumped and controlled system you will be able to have central heating without hot-water or vice versa. A gravity-fed hot water system does not allow heating to be on without hot water.

Technical Data

Type: LP522 Programmer

Voltage: 230V AC +10% -15% 50Hz

Rating: 2 (1) A 230V AC each switch

Ambient Temp: 0°C to 45°C Operating
- 20°C to 50°C Storage

Battery Reserve: Display - typically 1 hour
Timekeeping - 7 to 8 hours
Programme - Min 1¹/₂ Years

Programming Resolution: 10 minutes

Wiring: Designed for fixed wiring only to comply with current I.E.E. regulations

Maintenance: No user maintenance should be attempted.

Invensys Climate Controls continuously seek to improve products and reserve the right to make changes without notice.

Programming

The clock in the LP522 has to be set to the actual day of the week and time of day. It must then be told at what times you want it to switch your Central Heating (CH) and Hot Water (HW) system ON and OFF both for weekdays and weekends. The LP522 has an in-built programme of standard switching times.

They may well be right for you, but if they are not exactly what you want you can change them.

The standard programme is shown in the table below and for simplicity, the switching operations are described as ON1, OFF1, ON2, and OFF2 from now on.

Setting the Clock

Switch on the mains supply to the LP522 and hinge down the front cover. Press and release the button marked SET.

The question SET CLOCK ? will appear in the display. Press and release the button marked YES to answer the question and the day part of the display will flash. Use the + and - buttons to change to the correct day then press SET again.

This will cause the hour part of the display to flash.

Again use the + or - to change to the correct hour (check AM or PM) then press SET again.

The display will now show SET PROG? (see later instructions for changing your programme). Press the SET button again, and the display will show the time of day you have set.

Your programmer is now in the operating mode and ready to work using the built-in standard programme times.

Programme Options

Your installer should have set the LP522 to suit your heating system.

If this is one which does not permit you to have CH without HW you will find the LP522 does not allow this to happen.

If you have a fully pumped and controlled system then you will be able to operate heating and hot water independently.

The LP522 gives you 4 options for both CH and HW:

- OFF - Off all the time
- TWICE - On for two periods each day
- ONCE - On for one period each day (ON1 → OFF2)
- ON - On all the time.

SWITCHING	MON-FRI PROGRAMME		SAT-SUN PROGRAMME	
	HW	CH	HW	CH
ON1 - Start of first 'ON' period of day	6.30 am	6.30 am	7.00 am	7.00 am
OFF1 - End of first 'ON' period	8.30 am	8.30 am	9.00 am	9.00 am
ON2 - Start of second 'ON' period	4.30 pm	4.30 pm	4.00 pm	4.00 pm
OFF2 - Final switch off	10.30 pm	10.30 pm	11.00 pm	11.00 pm

Changing your Programme

With the programmer in the operating mode and the display showing the actual time of day, press the SET button. The display will show SET CLOCK ? but this has already been done so push the SET button again.

The question SET PROG ? will appear and as it is the programme timings which are to be changed answer by pressing the YES button. The display will now ask SET CH MON→FRI PROG ?.

NOTE: If you wish to make changes to the ON or OFF timings for CH during Monday-Friday press the YES button, if not press the SET button again and this will change the display question to SET HW MON→FRI PROG ?. Press YES if you want to change the HW timings during Monday-Friday, if not press SET again. The display will now ask SET CH SATSUN PROG ?. Press YES to make changes or SET to move to SET HW SATSUN PROG ?.

Again you have to answer the question either with the YES button or by pressing the SET button once more which will return the programmer to the normal operating mode with the time of day displayed.

If you answer YES to SET CH MON→FRI PROG ? or to SET HW MON→FRI PROG ? the display will show the time set for the first switch on (ON1) to occur during Monday - Friday. This can be altered in steps of 10

minutes by the use of the + and - buttons. When the display is showing the time you want, press SET and the OFF1 time will be seen.

Again changes may be made with the + or - buttons before pressing SET to display the time for ON2 to occur. After making any adjustments press SET again to get the OFF2 time displayed. This may be adjusted up to 23 hours 50 mins after the first switch on time.

Press SET again and SET CH SATSUN PROG ? is displayed. By answering YES, the same procedure can be followed for adjusting the CH timings for Saturday and Sunday.

Press SET again and SET HW SATSUN PROG ? is displayed. By answering YES, the same procedure can be followed for adjusting the HW timings before pressing SET one final time to go back into operating mode.

Helpful Hints

1. The + and - buttons are used to change times. Press and release for small changes; press and hold down and the time will 'run'.

2. You cannot set the first switch on time (ON1) before mid-night but you can set the OFF2 after mid-night so long as you don't try to exceed 23 hours 50 mins after ON1.

3. The four switching times have to be in sequence (ON 1, OFF1, ON2, OFF2) if you try to set OFF1 earlier than ON 1 the display will stop at the ON1 time with the OFF symbol flashing. The same thing will happen with other switching times e.g. between OFF1 and ON2, this time the ON symbol will flash.

4. If you attempt to set the ON1 time after the OFF1 time, the ON symbol will flash and the OFF1 setting will

follow the ON1 time being set to prevent incorrect programming. The same feature applies with the ON2 and OFF2 times and also between the OFF1 and ON2 times.

5. If you get confused and wish to start the whole programming procedure again, press the SET and + buttons together for a moment. The programmer will revert to a mid-night time display and the built-in standard programme. You will now have to set the clock again and then enter the programme you want.

6. When you are making adjustments to timings, if no button is pressed for 1 to 2 minutes, the programmer will automatically revert to the normal operating mode.

7. To shut the CH down for the summer simply select the OFF option by means of the CH select button.



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CONFORMS TO THE ESSENTIAL REQUIREMENTS OF THE FOLLOWING DIRECTIVES:
89/336/EEC - Electromagnetic compatibility
73/23/EEC - Low voltage Directive

