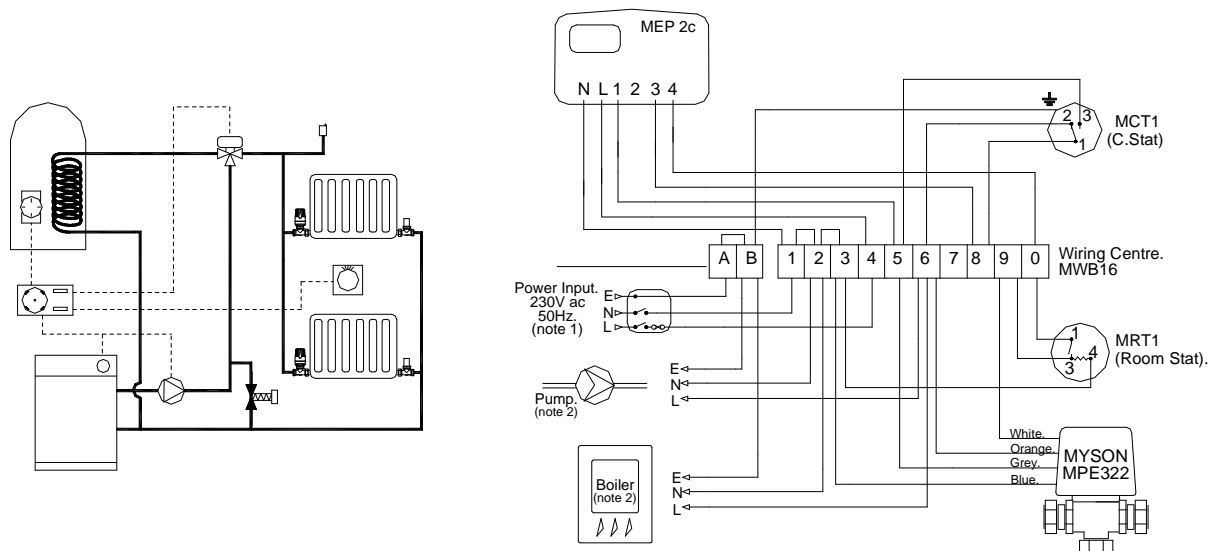






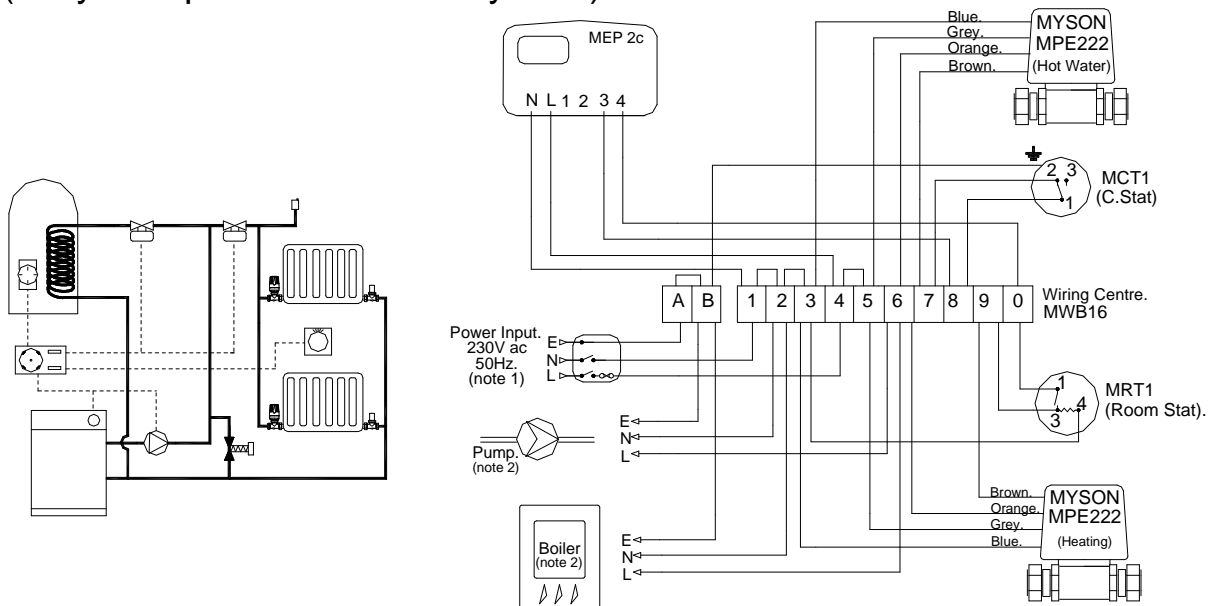
# MYSON Control Pack Wiring Guide.

## MDPAK 1: DIVERTER PACK 1.



Note 1: A Class 'A' switch, (contact separation of at least 3mm in all poles) must be incorporated in the fixed wiring as a means of disconnecting the supply voltage.  
To avoid electric shock, disconnect mains supply before doing any maintenance or installation work.  
To protect the system a fuse rated at 3 amps must be installed.  
To avoid electric shock installation or repair must be carried out by suitably qualified personnel and in accordance with current IEE regulations.  
Note 2: Refer to the boiler and pump manufacturers wiring instructions to determine their precise wiring requirements, with particular reference to pump "over-run"

## MZPAK 2: ZONE PACK 2. (Fully Pumped Zone Valve System)



Note 1: A Class 'A' switch, (contact separation of at least 3mm in all poles) must be incorporated in the fixed wiring as a means of disconnecting the supply voltage.  
To avoid electric shock, disconnect mains supply before doing any maintenance or installation work.  
To protect the system a fuse rated at 3 amps must be installed.  
To avoid electric shock installation or repair must be carried out by suitably qualified personnel and in accordance with current IEE regulations.  
Note 2: Refer to the boiler and pump manufacturers wiring instructions to determine their precise wiring requirements, with particular reference to pump "over-run"

# MYSON POWER EXTRA

## SPRING RETURN ZONE VALVE

### MPE 222 / MPE 2 3/4 “- 2 PORT 22mm VALVE

*Thank you for choosing a MYSON heating control.*

The MPE 222 is designed to control water circulation in primary hot water or central heating circuits. The motor is powered to open the valve with a spring return to the closed position.

The valve is not directionally sensitive and may be fitted with flow through either Port A or Port B.

For convenience the neon indicator light illuminates, indicating when the valve is open.

When the manual lever is moved to the right, the valve is open. This is used when filling, venting or draining the system. The spring return valve rests in the closed position.

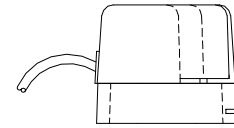
#### TECHNICAL SPECIFICATION

Motor Supply Voltage	230 V AC
Frequency	50 Hz
Power Consumption	6 W
Motor Insulation Rating	Class ‘F’
Maximum Working Pressure	10 Bar
Maximum Water Temperature	95° C
Maximum Ambient Temperature	52° C
KV value	6.7
Switch Rating	3(0.5) A
High Temperature Silicon Cable	1100mm
Valve Body	Brass with spring loaded Mica filled PTFE shoes
Actuator	Power to Open Spring to Close

#### MPE 222 Spares

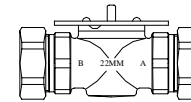
#### Description

#### Part No.



Actuator with  
Fixing screws

421101

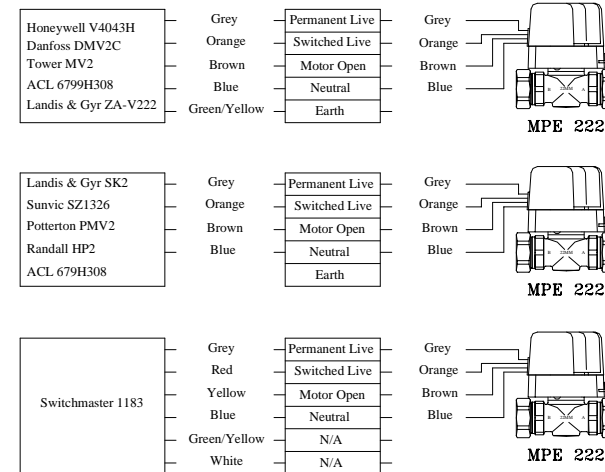


22mm 2 Port  
Valve body.

421102

#### PRODUCT INTERCHANGE WIRING GUIDE

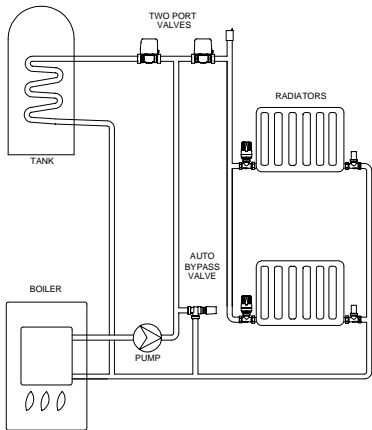
##### 2-PORT ZONE 22mm



MYSON CONTROLS, MYSON LTD., EASTERN AVENUE, TEAM VALLEY,  
GATESHEAD, TYNE & WEAR, NE11 0PG  
SALES OFFICE No.: 0845-402-3434

# INSTALLATION INSTRUCTIONS

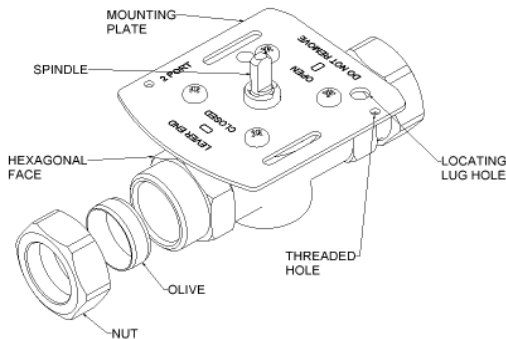
## Step 1. Select Valve Position:



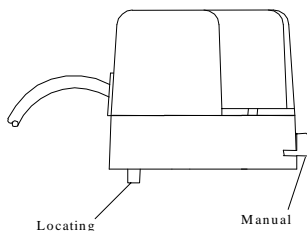
Choose a suitable position for the valve in the circuit to be controlled, which allows sufficient access for wiring and maintenance. The position chosen must not isolate the boiler from the open vent or the cold feed pipe work. The valve may be fitted in a horizontal, vertical or inclined orientation and may be fitted on either the flow or return circuit. The actuator **must not** be fitted below the valve body.

## Step 2. Fit Valve Body to Pipe work:

Fit the valve body using the 22mm compression nuts provided. Ensure that the valve body is only gripped on the hexagonal faces at the valve ports. Take care not to over tighten.



## Step 3. Fit Actuator to Valve Body:



Position the actuator on the valve body by locating the spindle in the cam slot. Rotate actuator until the locating lug (shown) lines up with locating lug-hole on the mounting plate (shown). Fix the actuator to the body by *lightly* tightening the screws provided. Set the override lever to MAN. Fill, test and thoroughly flush the system.

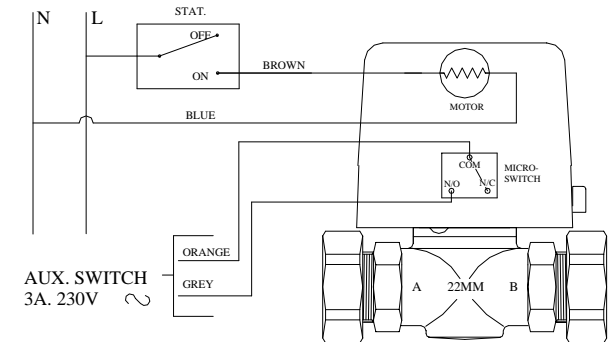
## Step 4. Electrical Connections:

The actuator is fitted with 1100mm of 4-core cable for connection of the system equipment. The installation will be simplified by the use of an electrical junction box into which all the system equipment can connect.

The actual wiring connections will depend on the system equipment used, following the wiring principle outlined below. The MPE 222 is double insulated and requires no earth connection.

**IMPORTANT:** The wiring must comply with current I.E.E. regulations. Ensure mains supply to all controls is fused at no more than 3A. Mains isolating switch must have contact separation of at least 3mm.

### System Controls To Be FUSED 3A MAX



## Step 5. Commissioning:

When the installation is complete, filled and vented, check that the valve operates correctly. Switch on the system controls, i.e. programmer and thermostats: The valve should move to the open position. When fully open any equipment connected to the valve's auxiliary switch should operate.

Switch off the heating controls: The valve should spring return to the closed position and auxiliary equipment should cease to operate.

### Notes:

- Ensure that the actuator is not covered with thermal insulation, or in contact with pipe work or other materials.
- When the valve is fitted in confined space, ample ventilation must be provided to ensure that the valve is kept within the specified ambient temperature range.
- The valve actuator is not designed for continuously powered operation.



# MYSON

## MCT1: Hot Water Cylinder Thermostat, Installation Instruction.

### TECHNICAL DATA.

Function:

Control of stored hot water temperature by electrical switching of control circuit.

Construction:

Electro Mechanical Switch, (S.P.D.T.)

Supply Voltage:

230V~, 50Hz.

Switch Rating:

15(2.5)A

Earthing:

Earth terminal provided

Enclosure Protection:

IP20.

Pollution Situation:

Normal.

Max. Mounting SurfaceTemp.: 100°C.

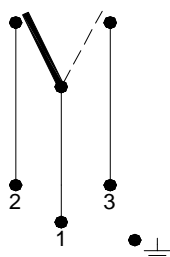
Operating Range: 10 to 90°C.

Switching Differential: 5 to 10°C.

Installation Details:

See wiring diagram below and installation instructions overleaf.

### WIRING.

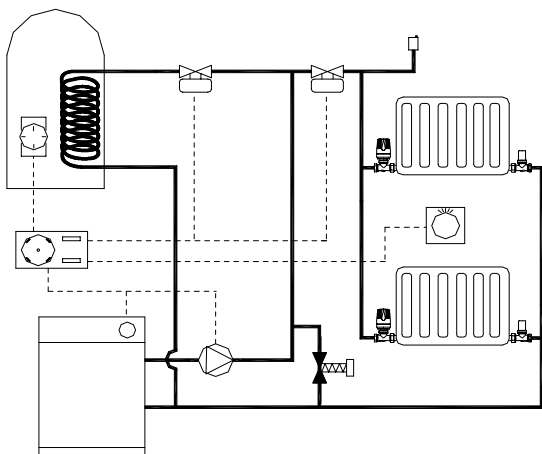


Terminal 1 : COMMON feed.

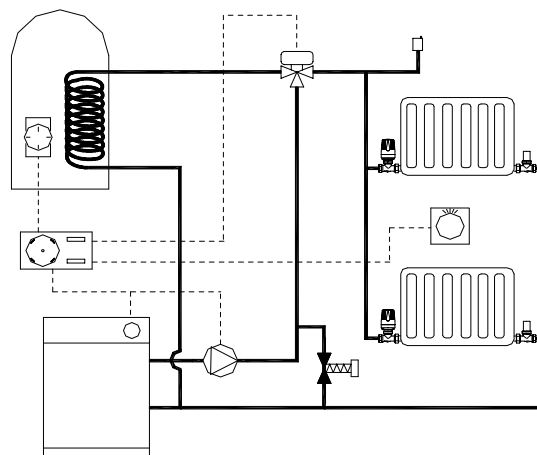
Terminal 2 : (N.C.) CLOSED when the water temperature is below the selected set point.  
( Terminal 2 opens when the selected temperature is reached )

Terminal 3 : (N.O.) OPEN when the water temperature is below the selected set point.  
( Terminal 3 closes when the selected temperature is reached )

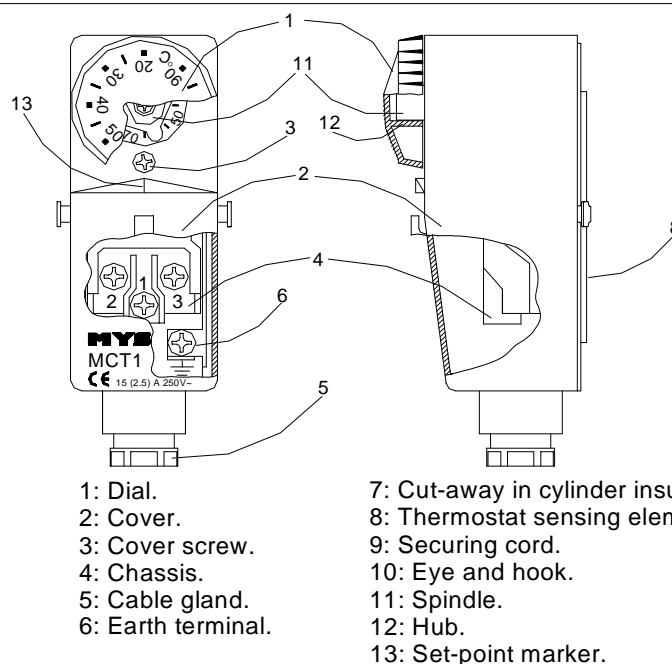
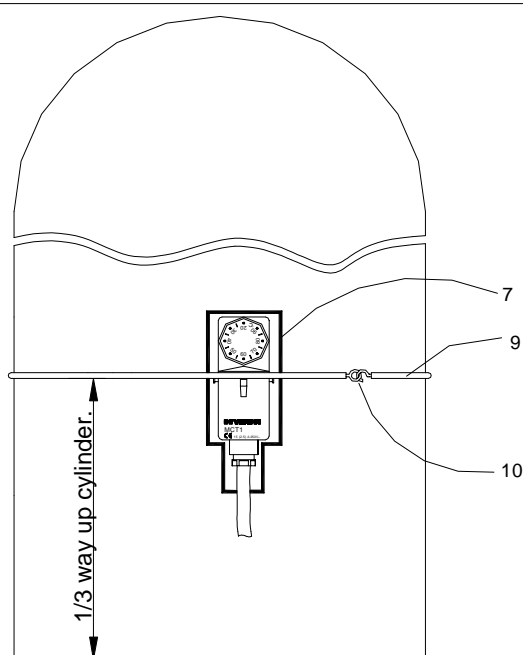
⏏ : SAFETY EARTH TERMINAL.



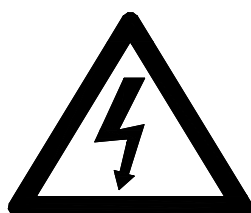
Typical Fully Pumped Zone Valve System.



Typical Fully Pumped Diverter/Mid-Position Valve System.



## PRECAUTIONS AGAINST ELECTRIC SHOCK HAZARD.



Disconnect mains supply before removing cover.

Installation & maintenance must be carried out by suitably qualified personnel and in accordance with current IEE wiring regulations.

This device must be electrically earthed via the earth terminal provided. Fixed wiring installation must be employed. A class 'A' switch, (having contact separation of at least 3mm in all poles) must be incorporated in the fixed wiring as a means of disconnecting the supply.

Use a fuse rated at 3 amps to protect the system.

## INSTALLATION INSTRUCTION.

Remove the dial (1) from the cover (2) by inserting the blade of a small screwdriver between them and prising them apart.

Undo the cover screw (3) and remove the cover from the chassis (4).

Route the cable through the cable gland (5).

Wire according to the wiring diagram overleaf.

Ensure that you connect the earth wire to the earth terminal (6).

Replace the cover and cover screw.

Replace the dial, ensuring that the flat of the dial hub (12) aligns with the flat of the spindle (11)

Tighten the cable gland so that it firmly anchors the cable.

Choose a location for the thermostat which is approximately 1/3 of the way up the cylinder

Locally cut away the cylinder insulation (7) so that the sensing element of the thermostat (8) is in intimate contact with the copper wall of the cylinder.

Fit the thermostat into the cut-away.

Cut the securing cord (9) to length. Fit the eye and hook (10) to the cord.

Wrap the cord around the cylinder to secure the thermostat firmly to the copper wall of the cylinder.

Set the thermostat to the desired temperature by rotating the dial so that the temperature on the dial coincides with the setpoint marker (12). The recommended setting is 60°C to reduce the risk of both scalding, and growth of legionella bacteria in stored water. (See Good Practice Guide 302).



# MYSON

MYSON CONTROLS  
MYSON LTD, EASTERN AVENUE,  
TEAM VALLEY, GATESHEAD,  
TYNE & WEAR, NE11 0PG  
SALES OFFICE No.: 0845 402 3434

IN ACCORDANCE WITH OUR POLICY OF CONTINUAL PRODUCT IMPROVEMENT, WE RESERVE THE RIGHT TO AMEND THE SPECIFICATION OF THESE PRODUCTS WITHOUT PRIOR NOTIFICATION.

SC1983: Revision 3

# MEP 2c DUAL CHANNEL PROGRAMMER.

## Installation Instruction

### 1.0: Precautions Against Electric Shock Hazard.



Installation and maintenance must be carried out only by suitably qualified personnel & in accordance with IEE wiring regulations. This equipment must not be mounted to metal or metalised surfaces that are not earth bonded. A fuse rated at 3 amps must be installed to protect the system installation. Disconnect mains supply before removing the equipment from its wiring plate, as terminals may be live.

Fixed wiring installation must be used. A class 'A' switch (having contact separation of 3mm minimum in all poles), must be incorporated in the fixed wiring as a means of supply disconnection.

Do not operate this equipment outside of its rated parameters, (current, voltage etc.). For example: do not wire directly to an immersion heater.

### 2.0: MEP 2c Technical Specification:

Function: Time control of domestic heating  
Power Supply: 230Vac, 50Hz.  
Switch Type: Two SPDT Relays, Type 1C  
Switch Rating: 3 (3) amps, each switch

Ambient Operating Temperature: 4 to 45 degC  
Storage Temperature: -20 to 55 degC  
Battery Backup: Retains settings for 1 year.  
Housing Material: Fire retardant ABS

Pollution Situation: Normal  
Software Class: A.  
Enclosure Protection: IP20  
Enclosure Insulation: Class II.



### 3.0: Regulatory Compliance.

This product conforms to the essential requirements of EU Directives: 89/336/EEC, 92/31/EEC: Electromechanical Compatibility 73/23/EEC, 93/68/EEC: Low Voltage.



### 4.0: Wiring to Replace an Existing Programmer:

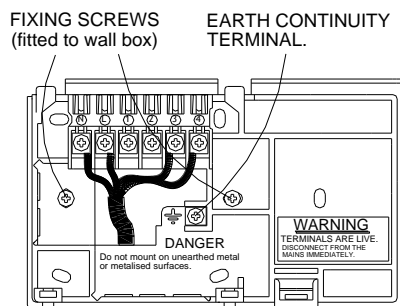
The MEP2c can be used to replace many existing programmers from other manufacturers. Refer to Table 1 and Table 2 below.

DIRECT REPLACEMENT: Simply remove existing programmer from wiring plate and fit the MEP2c to the wiring plate.			
Myson: 2MEP2c	Glow-Worm: Mastermind.	Honeywell: ST6200A ST6300A ST6400C ST6450B	Landis & Gyr: RWB2 RWB9 RWB69 RWB40 RWB200 RWB252 RWB270 Sunvic: Select 207XLS
ACL-Drayton: LP112 LP241 LP522 LP722 LS241 LS522 LS722	Danfoss Randall: CP15 CP75 FP15 FP75 MP15 MP75	Horstmann: Centaur Plus C21 Centaur Plus C27	
SAME WIRING: Note down the existing wiring. Remove existing wiring plate. Fit MEP2c wiring plate per Section 5. Wire directly as per notes taken.			
ACL-Drayton: Tempus 3. Tempus 4. Tempus 6. Tempus 7.	Horstmann: Centaur TC1 Centaur TC7	Potterton: Miniminder E. Miniminder Es.	Towerchron: DP72 QE2.

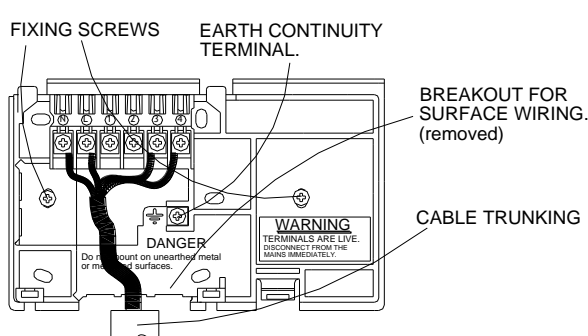
TABLE 1: DIRECT REPLACEMENT & SAME WIRING (SEE ALSO TABLE 2)

### 5.0: Mounting the MEP 2c Wiring Plate:

The wiring plate may be mounted either directly to the wall or to a single gang flush conduit box complying with BS1363 or BS4662. Allow clearance around the wiring plate as advised in figure 1. Fixing slots are provided in a number of locations on the wiring plate. Ensure that the mounting location allows easy access for adults but is out of the reach of children. The unit is for use in normal domestic environments only, and must not be installed in any location open to extremes of moisture, temperature, dust or other adverse conditions. Under no circumstances should the wiring plate be mounted to unearthed metal or metalised surfaces.



CONCEALED WIRING



SURFACE WIRING

Minimum Clearance Distances: Above and below wiring plate: 50mm. Left and right of wiring plate: 25mm

Figure 1: Myson Wiring Plate

## 6.0: Wiring the MEP 2c Wiring Plate:

Concealed wiring is brought in through the rear of the wiring plate, (fig. 1). Surface wiring is brought in either from the left hand side or from the bottom where break-outs are provided on the edges of the plate to allow access for cables. The break-outs may be broken clear with pliers, (fig 1). Surface cables must be routed in cable trunking.

The MEP 2c employs double insulation and therefore does not itself require an earth connection. An earth continuity (loop) terminal is however provided on the wiring plate for interconnecting existing earth cables.

## 7.0: System Wiring:

The internal wiring circuit of the MEP2c is illustrated in Figure 2.

System wiring of the more common heating systems is illustrated in figure 7. Ensure that any such installation is in accordance with IEE regulations. Note that the control components, (valves etc.), displayed in figure 7 are Myson components. If non-Myson components are used, ensure that the wiring is appropriate to the product installed.

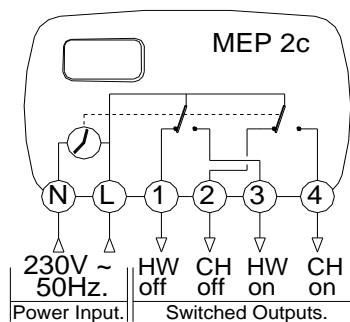


Figure 2: Internal Wiring.

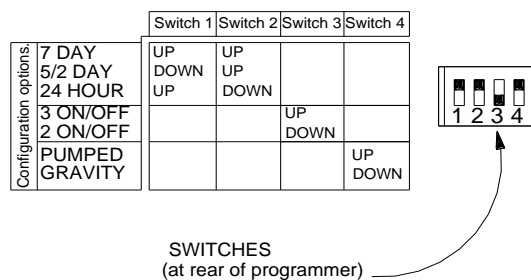


Figure 3: Configuration Switch Settings.

## 8.0: Configuring the Myson MEP 2c:

At the rear of the programmer is a configuration switch. Available options are:

### Data Entry Style:

7 DAY: ON/OFF times can differ from day to day.

5/2 DAY: ON/OFF times are the same Monday through Friday, and are the same on Saturday as on Sunday.

24 HOUR: ON/OFF times are the same for all seven days of the week.

### Number of Periods of Heat per Day:

3 ON/OFF: Heat in the morning, afternoon and evening

2 ON/OFF: Heat in the morning and in the evening.

### Hot Water Circulation:

PUMPED: For use in a pumped domestic hot water system.

GRAVITY: For use in a gravity domestic hot water system.

The switch settings corresponding to each of these options are illustrated in figure 3.

## 9.0: Fitting the Myson MEP2c to the Wiring Plate:

Where surface wiring has been used (Section 5), use pliers to remove the corresponding **breakout** from the **frame** of the programmer, (fig. 4).

Locate the programmer over the wiring plate at an angle as shown in figure 4. With the MEP2c wiring plate, the frame of the programmer passes underneath a **latching lip** on the wiring plate. The latching lip is not present on non-Myson wiring plates. Ensure that the two **tab receptacles** of the programmer are positioned directly over the two **tabs** of the wiring plate.

Rotate the programmer downwards into position so that it fully covers the wiring plate. Ensure that no conductors are exposed and that there is no possibility of access to any conductors.

The MEP 2c wiring plate possesses a **latching clip**, (fig. 5), which locks the programmer to the wiring plate. Check that the clip has adequately secured the programmer. On non-Myson wiring plates, engage the two **captive screws** of the wiring plate in the two **screw slots** of the programmer frame, (fig. 6). Tighten the screws ensuring that the screw heads are seated in the depression provided.

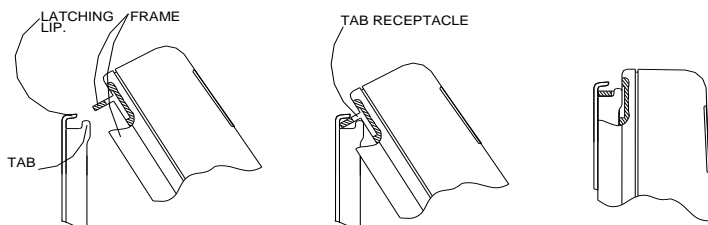


Fig 4. Fitting Programmer to Wiring Plate

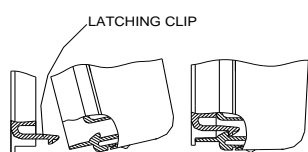


Fig 5. Myson Wiring Plate

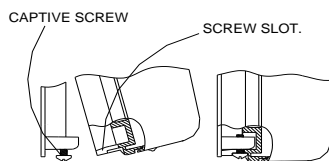


Fig 6. Non-Myson Wiring Plate

## 10.0: Handover to User:

Check that the programmer operates the heating system correctly and safely. Ensure all technical literature reaches the homeowner. Leave the dust cover provided in place over the programmer to protect it until handover to the homeowner

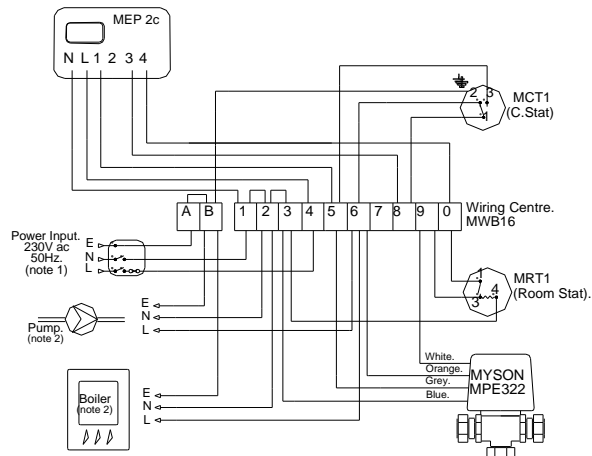
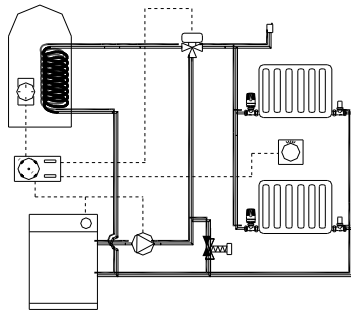


Remove the existing backplate, fit the MYSON MEP 2c backplate & wire existing wires to the terminals of the MYSON backplate as shown below.(note: identify and mark wires before removing from the existing backplate)									
		MYSON MEP 2c TERMINALS							
		E	N	L	1	2	3	4	NONE**
MANUFACTURER	MODEL								
ACL-Drayton	LS112	E	N	L	2		3	4	
	FP	E	2	1	8	11	6	10	3
	MP	E	2	1			6	10	3,7,8
	Switchmaster 320	E	N,2	L			3	1	
	Switchmaster 350	E	N,2	L			3	1	
	Switchmaster 400	E	N	L		4	3	1	2
	Switchmaster 600	E	N	L			3	1	2,4
	Switchmaster 805	E	N	L	4	2	3	1	
	Switchmaster 900	E	N	L	4	2	3	1	A,B,C
	Switchmaster 9000	E	N	L	4	2	3	1	A,B,C
	Switchmaster 9001	E	N	L	4	2	3	1	A,B,C
	Switchmaster 905	E	N	L	4	2	3	1	
	Switchmaster Sonato		N	L	3	6	1	4	
Danfoss Randall	102	E	5	6			1	2	
	102E	E	5	6			1	2	
	102E5	E	5	6			1	2	
	102E7	E	5	6			1	2	
	3020P	8	1,7	6			4	2	3,5
	3033	8	1,7	6	5	3	4	2	
	3060	8	1,7	6			4	2	3,5
	4033	8	7	6	5	3	4	2	
	701	E	N	L	4	2	3	1	
	702	E	N	L	4	2	3	1	
	922	E	N	L	1	4	3	6	
	972	E	N	L	1	4	3	6	
Honeywell	ST699B - Fully pumped	E	N	L	7	4	6	3	
	ST699B - Gravity	E	N	L			8	3	
	ST 7000A		N	L	2		3	4	
	ST 7100	E	N	L	7	4	8	5	
	ST 799A		N	L	7	4	6	3	
Horstmann	423 Amethyst 10	E	2,3	1	4	6	5	7	
	423 Amethyst 7	E	2,3	1	4	6	5	7	
	423 Diamond	E	N	L			2	4	5,6
	424 Coral	E	2,3	1			8	4	5,6
	424 Diamond	E	N	L/1			2	4	5
	424 Gem	E	2,3	1	6	9	4	7	
Landis & Gyr	RWB 20		N	L	1	2	3	4	
Pegler Sunvic	MP2		N	L	hw off		hw on	ch on	
	SP100	E	N	L	1	4	2	5	S,S
	SP25	E	N	L	1		2	5	S,S,4
	SP30	E	N	L	1		2	5	S,S,4
	SP50	E	N	L	1	4	2	5	S,S
Potterton	EP2000	E	N	L	1	2	3	4	A,B,C,D
	EP2001	E	N	L	1	2	3	4	A,B,C,D
	EP2002	E	N	L	1	2	3	4	A,B,C,D
	EP3000	E	N	L	1	2	3	4	A,B,C,D
	EP3001	E	N	L	1	2	3	4	A,B,C,D
	EP3002	E	N	L	1	2	3	4	A,B,C,D
	EP6000	E	N	L	1	2	3	4	A,B,C,D
	EP6002	E	N	L	1	2	3	4	A,B,C,D
Myson	Microtimer	E	N	L	7		6	3	
Sangamo	M5	E	4,5	3			1	6	
Smiths Industries	Centroller 100	E	N	L			3	2	1,4
	Centroller 60	E	1	2			5	4	3,6
	Centroller 70	E	1	2			5	4	3,6
	Centroller 90	E	1	2			5	4	3,6
Towerchron	T2002	E	N	L			hw on	ch on	
	T2002Q	E	N	L			hw on	ch on	
	T2003	E	N	L	hw off	ch off	hw on	ch on	
	T2003Q	E	N	L	hw off	ch off	hw on	ch on	
Venner	CHC/W2	E	N,2,4	L			1	A/S	A/S,3
	Venetrol 80	E	N,1,3,4	L			2	A/S	A/S,5
	Venetrol 80M	E	N,3	L	1	4	2	A/S	A/S,5
	Venetrol 80P	E	N,1,3	L			2	A/S	A,/,S,4,5
	Venetrol80P/M	E	N,3	L	1	4	2	A/S	A/S,5
	Venetrol T20	E	N	L			1	4	
	Venetrol T30	E	N	L	1	3	2	4	

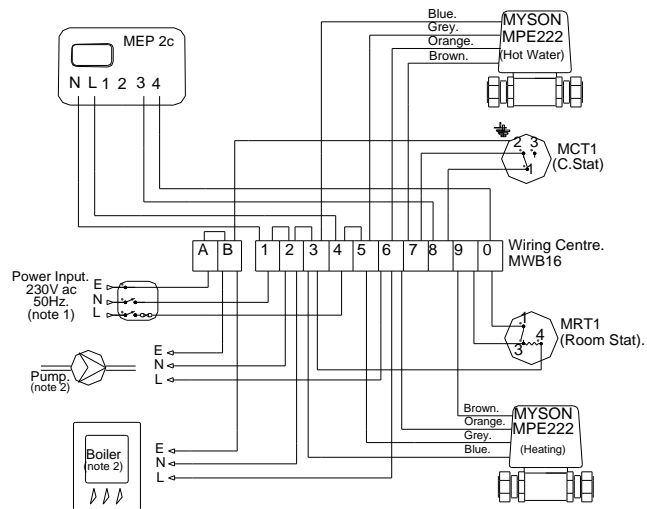
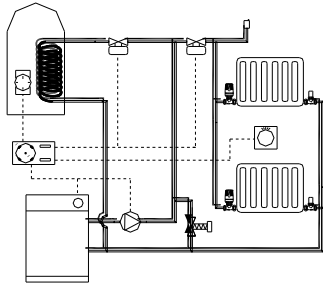
\*\* not used with the MEP 2c. Make safe the exposed ends of these wires & fold out of the way.

Table 2: Replacing an Existing Backplate and Rewiring (See also Table 1)

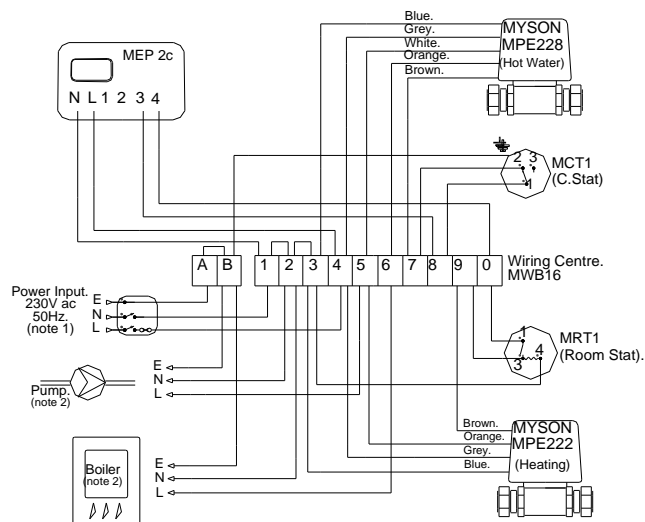
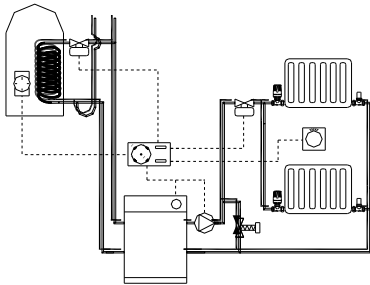
## TYPICAL DIVERTER/ MID-POSITION VALVE SYSTEM.



## TYPICAL ZONE VALVE SYSTEM.



## TYPICAL GRAVITY HOT WATER SYSTEM.



Note 1: A Class 'A' switch, (contact separation of at least 3mm in all poles) must be incorporated in the fixed wiring as a means of disconnecting the supply voltage.  
To avoid electric shock, disconnect mains supply before doing any maintenance or installation work.  
To protect the system a fuse rated at 3 amps must be installed.  
To avoid electric shock installation or repair must be carried out by suitably qualified personnel and in accordance with current IEE regulations.

Note 2: Refer to the boiler and pump manufacturers wiring instructions to determine their precise wiring requirements, with particular reference to pump "over-run".

Figure 7: Typical System Wiring.



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# MEP2c DUAL CHANNEL PROGRAMMER.

## User Instruction.

This programmer will switch your central heating and domestic hot water on/off at your chosen times. You simply enter the 'on' and 'off' times you require and run the programmer.

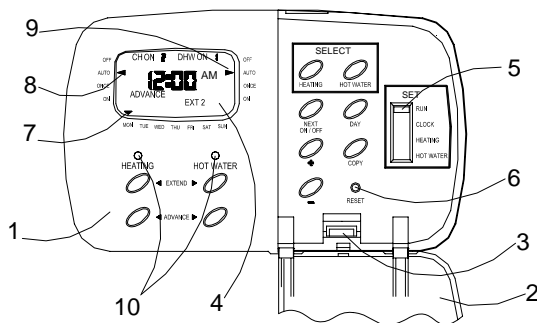
Key to abbreviations: CH: Central Heating. DHW: Domestic Hot Water.

### 1: Precautions Against Electric Shock Hazard:



Detaching your programmer from the wall exposes electrically live terminals in the same way as removing the cover from a mains wall socket exposes live terminals. The programmer is detached from the wall by unlatching the clip underneath the flap. This should only be performed by suitably qualified personnel and with the power switched off.

Ensure that your programmer has been installed by a qualified professional. Installation by non professionals could result in serious injury. As an added precaution ensure your programmer has been mounted in a location out of the reach of children.



- 1: Programmer.
- 2: Flap, (in opened position).
- 3: Clip for releasing programmer from wiring plate
- 4: Display.
- 5: SET Switch.
- 6: Reset button.
- 7: Day pointer.
- 8: CH Run Pointer.
- 9: DHW Run Pointer.
- 10: Status lights.

### 2: Setting the Clock:

The clock will automatically correct itself for winter/summer time changes. However should the clock need adjustment use the following instructions. Move the SET switch to CLOCK. Both the time and day pointer will be blinking. Press the DAY button until the day pointer points to the correct day. Use the + and – buttons to set the correct time. Press the NEXT button. The date will blink. Set using the + and – buttons. Press NEXT again. The month will blink. Set by using the + and – buttons again. Press NEXT and use the + and – buttons to set the first two digits of the year. Press NEXT and use the + and – buttons to set the final two digits of the year. Move the set switch back to RUN.

### 3: Entering on/off Times:

#### 3.1: Entering Heating on/off times:

Move the set switch to HEATING. "CH ON 1" will blink indicating that the heating is set to come 'on' at the time displayed. Use the + and – buttons to set the time you require.

Press NEXT: the display shows "CH OFF 1" and the switch 'off' time. Adjust if required.

Press NEXT again to set the 'on' time for your second heating period, (CH ON 2).

Press NEXT again to set CH OFF 2.

Press NEXT again: depending on your programmer set up "CH ON 1" or "CH ON 3" will be displayed.

If "CH ON 1" is displayed, your programmer has been set-up to give two heating periods per day. You have already set the times for both these periods and can now go to paragraph 3.2. (see notes 1).

If "CH ON 3" is displayed, your programmer has been set-up to give three heating periods per day. Enter the times for the third period in the same way as for the previous period and proceed to paragraph 3.2. (see notes 1).

#### 3.2: Heating on/off Times for the Rest of the Week:

Depending on how your programmer has been set-up, (see note 1), the day pointer, (on the display), will be in one of three formats:

a) Pointer appears at all seven days. The times entered in step 3.1 apply to all seven days. In this set up you do not have the option to change individual days. (see note 1). Proceed to step 3.3.

b) The pointer appears at one day only: The times entered in step 3.1 apply to one day only. Press the COPY button. The pointer moves to the next day, copying the settings from the first day. If required, modify the settings using the +, -, and NEXT buttons. Repeat the process for the remaining days and proceed to step 3.3.

c) The pointer appears at either the five week days or the two weekend days. The times entered in step 3.1 apply to either the weekdays or to the weekend days. Press COPY. The pointer moves to the other group of days copying the times in the process. Modify if required using the + and - buttons. Proceed to paragraph 3.3.

#### 3.3: Entering Hot Water on/off Times:

Move the SET switch to HOT WATER and repeat the procedure of 3.1 & 3.2 above. Now proceed to paragraph 4.

## **4: Running the Programmer:**

### *4.1: To run the programmer:*

Move the SET switch to RUN. Both CH and DHW run pointers point to AUTO. "AUTO" indicates that the programmer will switch on/off at the times entered. Press the SELECT HEATING button. The CH pointer moves to ONCE. "ONCE" indicates that the heating will come on at the first 'on', (CH ON 1) and remain on until the last 'off'. This is an "on by day" and "off by night" option. Press the SELECT HEATING button again. The pointer moves to ON. The heating will remain on constantly, by day and by night. Press the SELECT HEATING button again. The pointer moves to OFF. The heating will remain off constantly. Press the SELECT HEATING button again. The pointer returns to AUTO.

In a similar fashion the SELECT HOT WATER button enables you to cycle through the four hot water options, AUTO, ONCE, ON and OFF.

### *4.2: Information Displayed when Programmer is Running:*

When the programmer is running the display provides the following information: the current day; the current time; the run option chosen, (AUTO, ONCE, ON, OFF); and whether your heating or hot water is currently on or off. Additionally, if you are running in AUTO, you are told which on/off period is current. For example: CH ON 2 tells you that you are in the second heat period. There are also red status lights on the front of the programmer. The left one applies to central heating and the right one to hot water. When the lights are on the heating or hot water is on, and when they are off the heating or hot water is off.

## **5: Additional Functions:**

EXTEND & ADVANCE are functions you may find useful. They operate in AUTO mode and are explained below.

### *5.1: ADVANCE:*

If your heating is 'on', pressing HEATING ADVANCE will switch it off. It will remain off until the next 'on' time. If your heating is 'off', pressing HEATING ADVANCE will switch it on. It will remain on until the next 'off' time.

"ADVANCE" is visible on the CH side of the display. If you press ADVANCE again, the ADVANCE is cancelled. HOT WATER ADVANCE works in a similar fashion to HEATING ADVANCE.

### *5.2: EXTEND:*

If your heating is 'off' pressing HEATING EXTEND will bring the heat on for one hour, (or until it reaches the next programmed 'on', whichever comes first). If you press it twice the heat will come on for two hours and if you press it three times the heat will come on for three hours. Pressing it four times will cancel the EXTEND function.

"EXT 1", "EXT 2", or "EXT 3" as appropriate appear on the CH side of the display.

If your heating is 'on', pressing HEATING EXTEND adds an extra hour to the normal 'on' period. If you press it twice, two extra hours are added and if you press it three times, three extra hours are added. Pressing it four times will cancel the EXTEND function.

"EXT 1", "EXT 2", or "EXT 3" as appropriate appear on the CH side of the display.

HOT WATER EXTEND works in a similar fashion to HEATING EXTEND.

## **6: General:**

### *6.1: Power Failure:*

The programmer has a memory backup that saves all settings for one year following loss of mains power. In the event of longer power-cuts the date, time and on/off settings will have to be re-entered.

### *6.2: Maintenance:*

Your programmer is a maintenance free device. In the event of a minor problem such as loss of display or programmer hang-up, press and hold the RESET button for 2 seconds. This will return your on/off settings to default settings. You will have to re-enter your on/off times. In the event of a more serious problem contact a professional. Do not attempt to remove the programmer from the wall as removal results in live wires being exposed on the wiring plate.

Note 1: Your programmer set-up can be altered. This action can only be performed by a qualified professional



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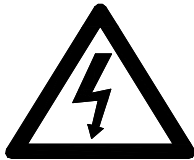


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# MYSON

## MYSON MRT1: ROOM TEMPERATURE THERMOSTAT. INSTALLATION INSTRUCTION.



### PRECAUTIONS AGAINST ELECTRIC SHOCK HAZARD.

Disconnect mains supply before removing cover.

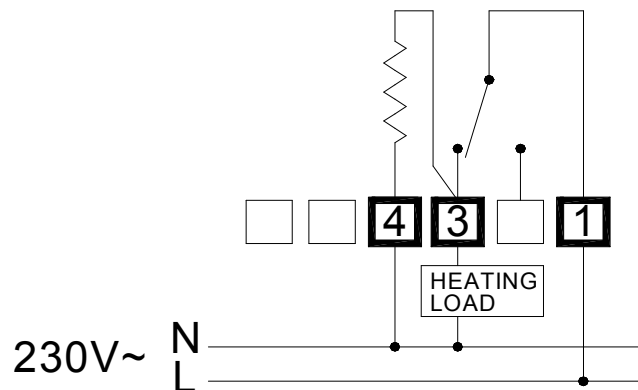
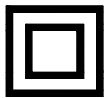
Installation & maintenance must be carried out by suitably qualified personnel and in accordance with current IEE wiring regulations.

Do not mount to unearthed metal or metalised surfaces.

Fixed wiring installation must be employed. A class 'A' switch, (having contact separation of at least 3mm in all poles) must be incorporated in the fixed wiring as a means of disconnecting the supply. Use a fuse rated at 3 amps to protect the system.

### TECHNICAL DATA.

Function:	Control of room temperature by electrical switching of control circuit.
Construction:	Electro Mechanical Switch.
Supply Voltage:	230V~, 50Hz.
Switch Rating:	15(2.5)A
Enclosure Insulation:	Class II, (double insulated).
Enclosure Protection:	IP20.
Pollution Situation:	Normal.
Ambient Temperature:	0 to 50°C.
Ambient Humidity:	5 to 95% Relative Humidity.
Operating Range:	6 to 30°C.
Switching Differential:	1.3°C.
Installation Details:	See wiring diagram below and installation instructions overleaf.



CIRCUIT WIRING DIAGRAM.



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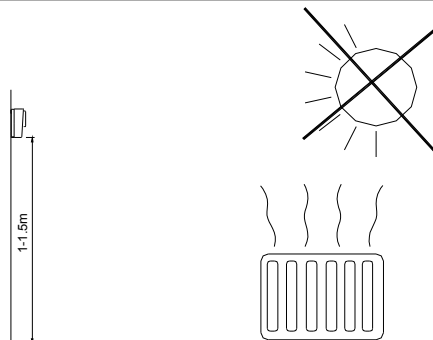
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SC1959: Revision 2.

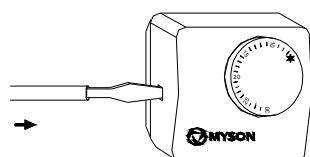
# INSTALLATION INSTRUCTION.

## POSITIONING OF THERMOSTAT.

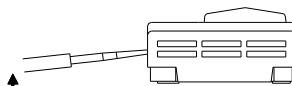


- 1: Locate the thermostat at a height between 1 and 1.5 metres from the floor.
- 2: Do not locate in a position directly exposed to heat from the radiator, sunlight, or other heat sources
- 3: In the case of a room with a single radiator, locate on the wall adjacent to the wall of the radiator
- 4: In the case of a room with multiple radiators, try to locate on a wall central to all radiators

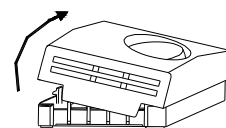
## COVER REMOVAL.



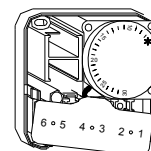
- 1: Insert blade of screwdriver into the clip slot on the side of the thermostat.



- 2: Lever screwdriver upwards to prise the cover off the clip.



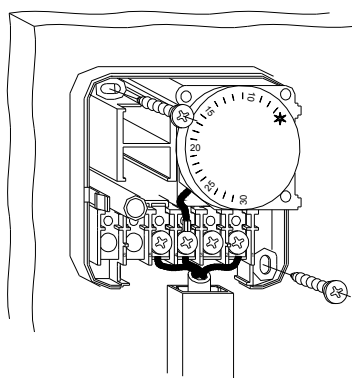
- 3: Rotate cover free of the thermostat.



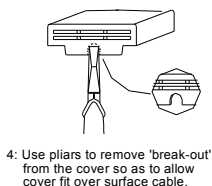
- 4: Remove the terminal cover.

## Wall Fixing. (Choose either Surface or Concealed Wire Fixing.)

### Surface Fixing.

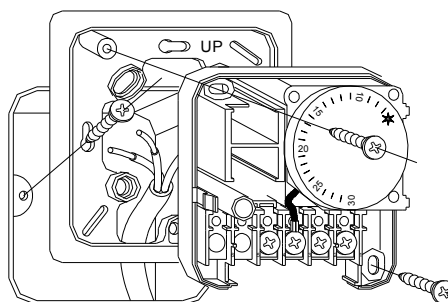


- 1: Fix thermostat to wall using two screws as shown.
- 2: Route the cable in cable trunking as shown.
- 3: Wire as indicated in wiring diagram overleaf.

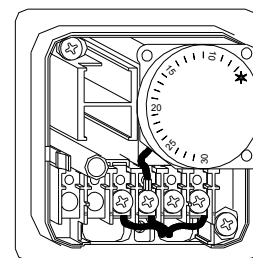


- 4: Use pliers to remove 'break-out' from the cover so as to allow cover fit over surface cable.

### Concealed Wire Fixing.

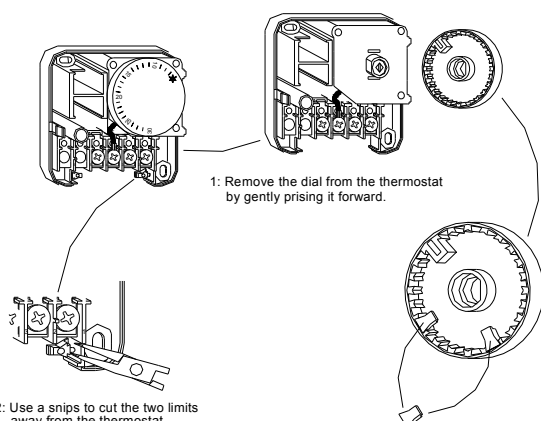


- 1: Fix backplate to wall box using two screws as shown.
- 2: Route the cable through the backplate and beneath the terminals of the thermostat.
- 3: Fix the thermostat to the backplate using two screws as shown.
- 4: Wire as indicated in wiring diagram overleaf.



(recommended practice)

## FITTING TEMPERATURE LIMITS.



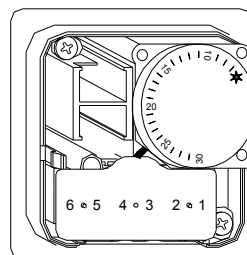
- 1: Remove the dial from the thermostat by gently prising it forward.

- 2: Use a snips to cut the two limits away from the thermostat.

- 3: Fit the limits to the rear of the dial as shown.

- 4: Refit the dial to the thermostat ensuring that the flat of the dial hub lines up with the flat of the thermostat spindle.

## REASSEMBLY.



- 1: Fit terminal cover over the terminals.
- 2: Locate cover over thermostat so that the two locating protrusions of the thermostat align with their matching receptacles on the inside of the cover.
- 3: Rotate cover downwards so that it engages on the thermostat clip.

