



# WEATHER COMPENSATION KIT

When replacing any part on this appliance, use only spare parts that you can be assured conform to the safety and performance specification that we require. Do not use reconditioned or copy parts that have not been clearly authorised by Ideal Boilers.

**For the very latest copy of literature for specification and maintenance practices visit our website [www.idealboilers.com](http://www.idealboilers.com) where you can download the relevant information in PDF format.**

**This kit is suitable only for the domestic gas boilers listed below:**

**COMBI BOILERS**

- Logic Combi C
- Logic Combi C IE
- Logic Combi ESP1
- Logic Code Combi ESP1
- Logic+ Combi C
- Independent Combi
- Independent+ Combi
- Vogue Combi C GEN2
- Vogue Combi C IE GEN2
- Logic Max Combi C
- Vogue Max Combi
- Independent Max Combi C
- Logic Max Combi C IE
- Vogue Max Combi IE

**HEAT BOILERS**

- Logic Heat H
- Logic Heat H IE
- Logic+ Heat H
- Logic Max Heat H
- Logic Max Heat H IE

**SYSTEM BOILERS**

- Logic System S
- Logic System S IE
- Logic+ System S
- Vogue System S GEN2
- Vogue System S IE GEN2
- Logic Max System S
- Vogue Max System
- Logic Max System S IE
- Vogue Max System IE

**Ideal OS2 (Outside Sensor 2)**

Class II used in isolation, Class VI used with Ideal PRT4  
 Contribution to Seasonal Space Heating Energy - 2% (Class II), 4% (Class VI)

**INTRODUCTION**

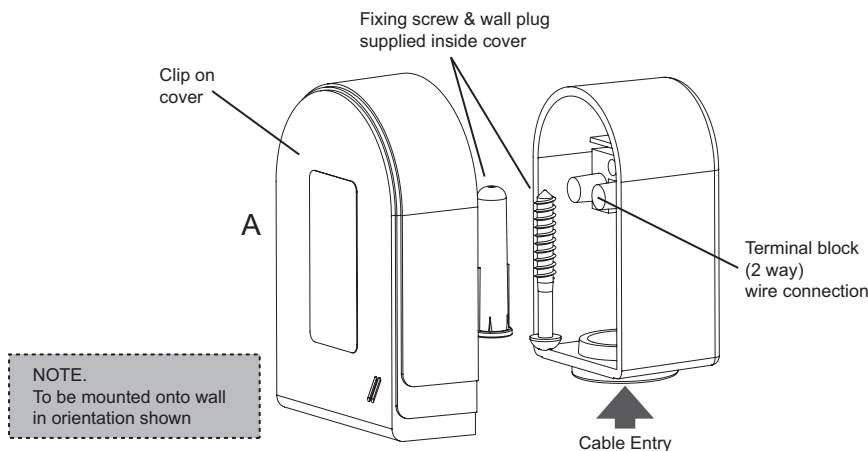
This kit provides the facility to apply outside air temperature control to the boiler water flow temperature which provides energy savings. The outside sensor provided measures outside air temperature and sends a signal to the boiler, which adjusts the maximum boiler flow temperature in response. If outside air temperature is greater than the system design temperature, the boiler flow temperature is reduced providing running cost savings. The boiler will operate in the condensing mode more frequently increasing savings.

Once the sensor is fitted it is automatically detected.

The sensor operation may be configured by adjustment of the boiler operating parameters, if necessary.

**1 KIT CONTENTS**

- A. Outside Air Sensor
- B. SAP Registration Label



## 2A FITTING THE KIT - OPTION 1

### Notes.

1. A timer should be fitted to the system so that CH will be switched off when appropriate.
2. The Connector (Frame 1, item C). is prefitted to certain boilers. Boilers that don't have this fitted are marked with an \* on page 2.

### FITTING THE SENSOR

The air sensor should be located on an external wall of the building to be heated. Fix the sensor to a north/north-east facing wall to avoid direct radiation from the sun. The air sensor should be located to avoid any heating effect from the boiler flue.

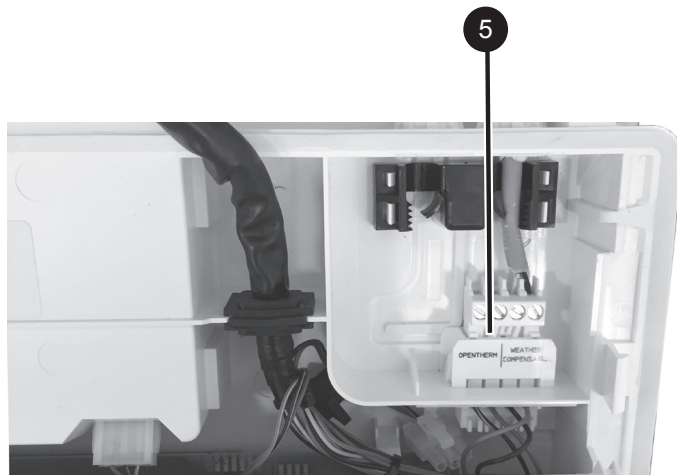
To fix the air sensor to the wall, unscrew the sensor box plastic cover and screw/plug the sensor body to the wall.

Wire a twin core 0.5mm<sup>2</sup> cable from the sensor to the boiler through a RH grommet located on the underside of the boiler. Cable length between sensor and boiler should be no greater than 20m. Note that this connection is protected extra low voltage. It is not necessary for the person carrying out the wiring to be approved to Part P of the Building Regulations.

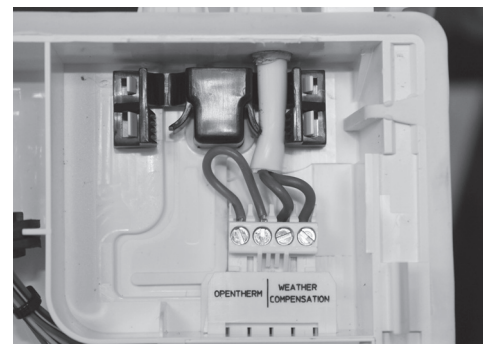
Avoid running this cable alongside mains voltage cables.

### WIRING THE WEATHER COMPENSATION KIT TO THE BOILER

1. Isolate the electricity supply to the boiler.
2. Remove the boiler front panel (refer to boiler installation instructions).
3. Hinge down the control box.
4. Unclip and rotate the installer connections cover towards you until it clips into the retention holes.
5. Connect the wires from the outside sensor into the RHS two terminals of the 4 way connector. Insert the connector into the socket marked 'OPENTHERM / WEATHER COMPENSATION'
6. Re-assemble in reverse order.
7. Record your name and today's date on the enclosed label and adhere it to the boiler in a position which will be visible for future inspection.



Combi boiler



Heat & System

## 2B FITTING THE KIT - OPTION 2

### Fitting the Sensor

The air sensor should be located on an external wall of the building to be heated. Fix the sensor to a north/north-east facing wall to avoid direct radiation from the sun. The air sensor should be located to avoid any heating effect from the boiler flue.

To fix the air sensor to the wall, unscrew the sensor box plastic cover and screw/plug the sensor body to the wall.

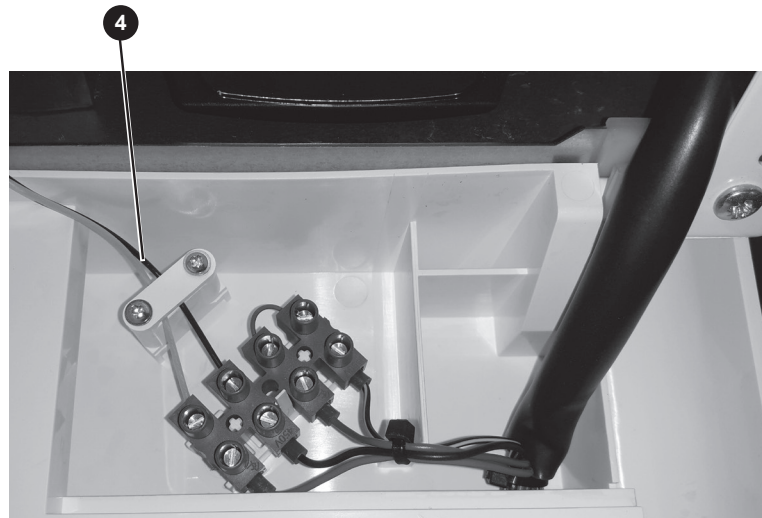
Wire a twin core 0.5mm<sup>2</sup> cable from the sensor to the boiler through a RH grommet located on the underside of the boiler. Cable length between sensor and boiler should be no greater than 20m. Note that this connection is safety extra low voltage. It is not necessary for the person carrying out the wiring to be approved to Part P of the Building Regulations.

Avoid running this cable alongside mains voltage cables.

**Note.** A timer should be fitted to the system so that CH will be switched off when appropriate.

### Wiring the Weather Compensation Kit to the boiler

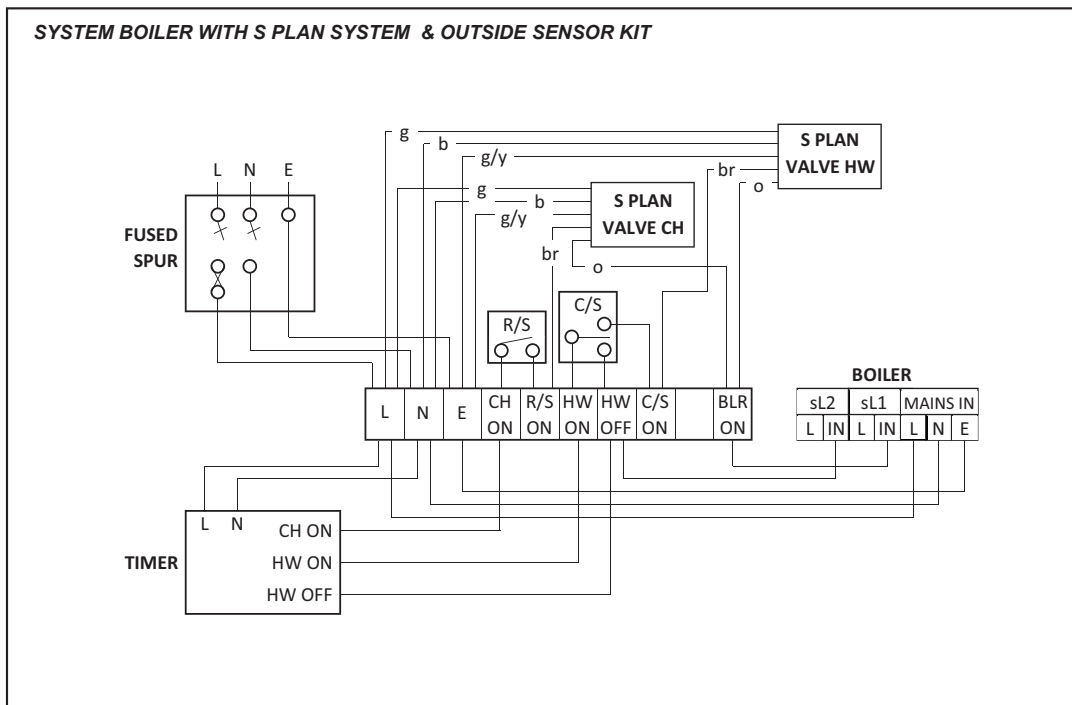
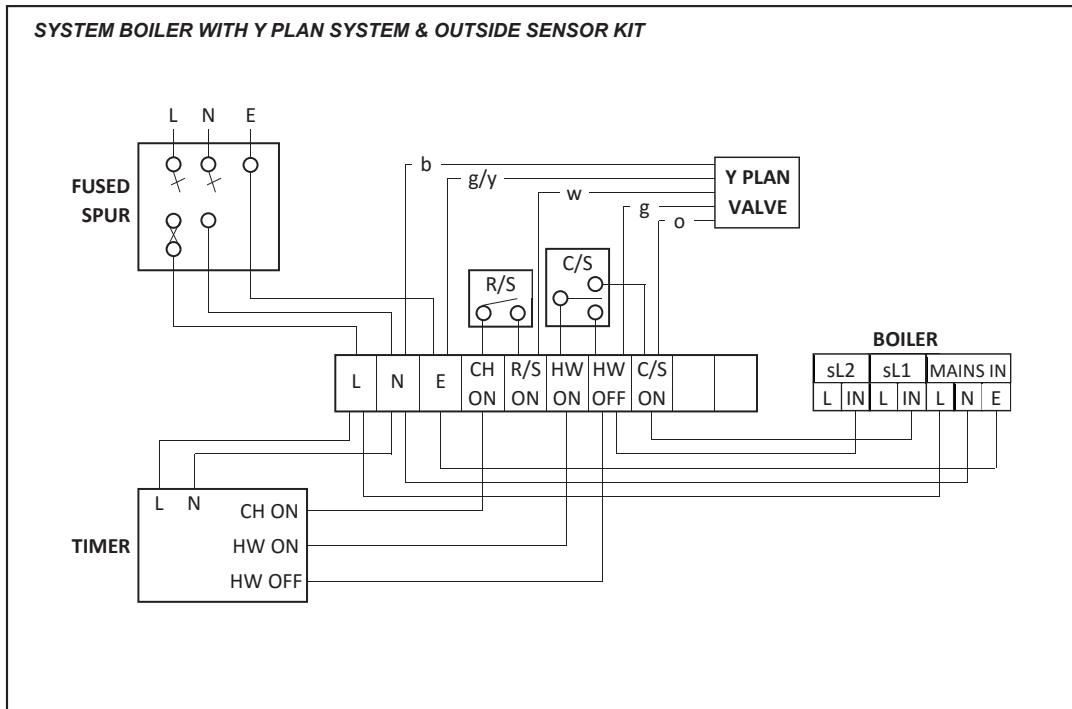
1. Isolate the electricity supply to the boiler
2. Remove the boiler front panel (refer to boiler installation instructions).
3. Hinge down the control box and remove the 2 screws retaining the control box cover (refer to boiler installation instructions).
4. Connect the wires from the Outside Sensor into the two connections on the left hand side of the 4 way terminal block and secure with a cable clamp.
5. Re-assemble in reverse order.
6. Record your name and today's date on the enclosed label and adhere it to the boiler in a position which will be visible for future inspection.



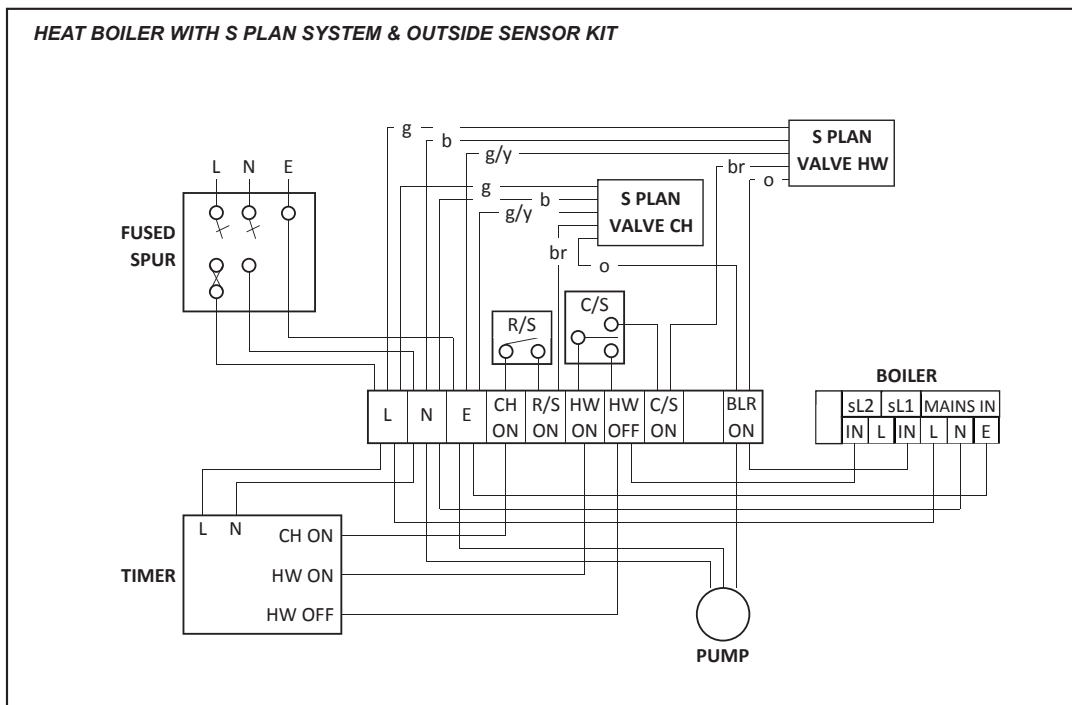
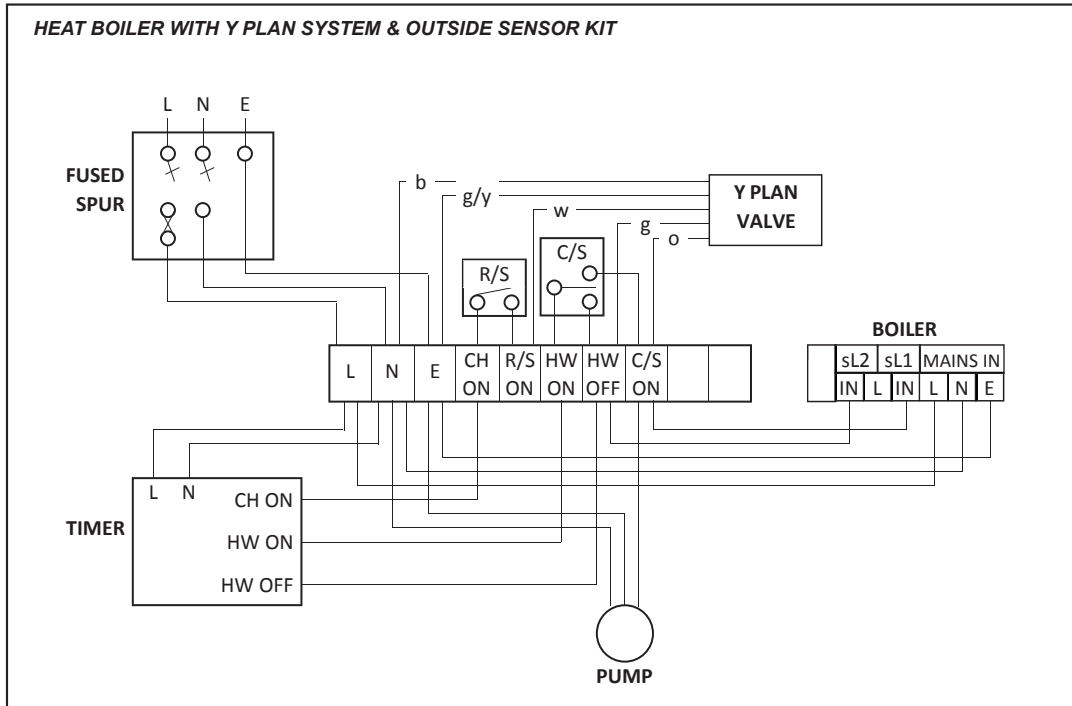
## 3 INSTALLER WIRING - HEAT & SYSTEM BOILERS ONLY

When fitting the outside sensor to the Heat or System boiler, refer to the changes required to the S and Y plan wiring on the following pages.

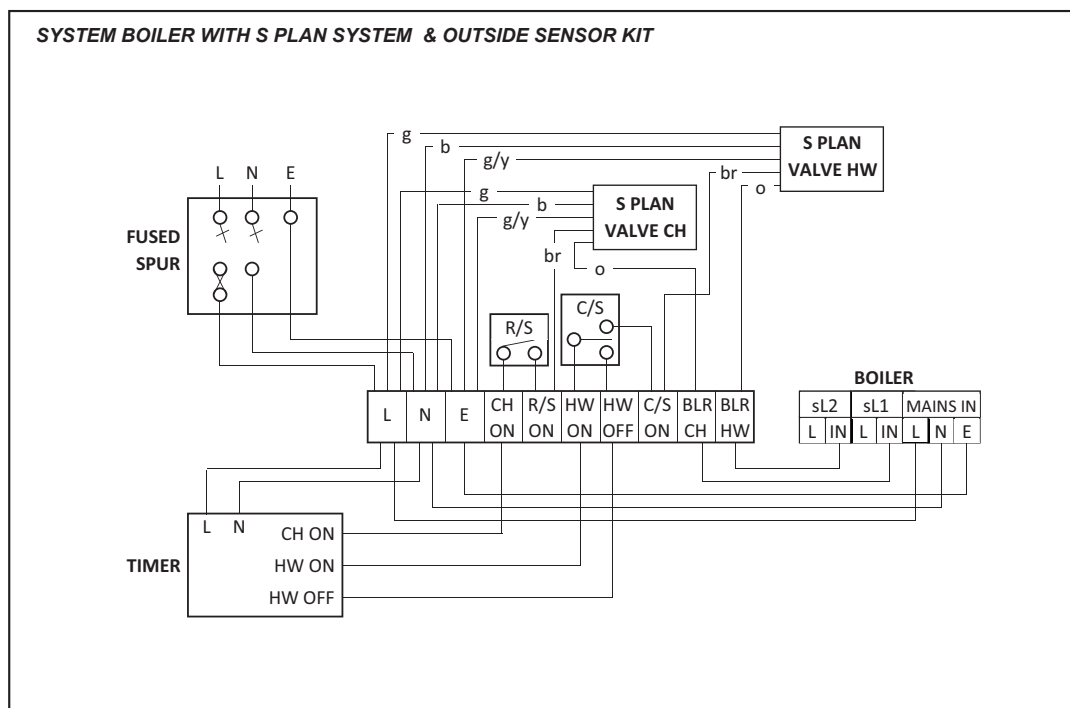
#### 4 INSTALLER WIRING S & Y PLAN DRAWINGS - LOGIC SYSTEM BOILERS ONLY



## 5 INSTALLER WIRING S & Y PLAN DRAWINGS - HEAT BOILERS ONLY



## 6 INSTALLER WIRING S PLAN DRAWINGS - VOGUE SYSTEM BOILERS ONLY



## 7 WEATHER COMPENSATION KIT OPERATION

### CH OPERATION

The On and Off time control of central heating should be controlled by a separate timer.

During programmed On times the Central Heating Radiator Flow Temperature is controlled by the boiler relative to the Outside Temperature as shown in the diagram.

The Room temperature can be adjusted using the Central Heating Temperature Control Knob on the boiler as follows. Essentially rotating the knob clockwise increases the room temperature and rotating the knob anti-clockwise decreases the room temperature.

The Room Temperature Setpoint in the associated graph is not directly related to the Actual Room Temperature but is the Nominal Room Temperature during a programmed CH period.

This can be adjusted between 5 and 30 degrees by the CH Potentiometer Knob on the Boiler when the Outside Temperature Sensor is connected. The graph only shows temperatures between 12 and 30 degrees for clarity.

### DHW OPERATION

When the system is in a timed on period for DHW and the tank stat is not satisfied, OV will be generated on the switched live input SL2 of the boiler.

This will ensure that Weather Compensation adjustment is ignored at this time. The set point will be fixed at 80 degrees.

The demand is indicated on the display by 'ON' and the burner on symbol as appropriate.



**WEEE DIRECTIVE 2012/19/EC**

**Waste Electrical and Electronic Equipment Directive**

- At the end of the product life, dispose of the packaging and product in a corresponding recycling centre.
- Do not dispose of the unit with the usual domestic refuse.
- Do not burn the product.
- Remove the batteries.
- Dispose of the batteries according to the local statutory requirements and not with the usual domestic refuse.



**Technical Training**

The Ideal Technical Training Centre offers a series of first class training courses for domestic, commercial and industrial heating installers, engineers and system specifiers.

For details of courses please ring:..... 01482 498432

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