



OUTSIDE SENSOR KIT INSTRUCTIONS

IMAX XTRA 2
80 120 160 200 240 280
80P 120P 160P 200P 240P

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 Heating.

For the very latest copy of literature for specification and maintenance practices visit our website idealheating.com where you can download the relevant information in PDF format.



INSTRUCTIONS

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1.1 INTRODUCTION

The following document provides instructions on how to upgrade the Imax Xtra 2 in order to use an outside temperature sensor to automatically control the boiler water temperature.

The warmer the outside air, the lower the set boiler temperature.

To condense, a return temperature of 55°C or lower is required. Therefore, with an outside air temperature sensor fitted the boilers run more efficiently in condensing mode. Once the sensor is fitted it is automatically detected.

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

This is done using the **Outside Sensor Kit**.

1.2 OUTSIDE SENSOR KIT PARTS

The kits consist of the following parts:

1. Outside Sensor - Shown in Fig.1.
2. Sensors Connector Kit - Shown in Fig 2.

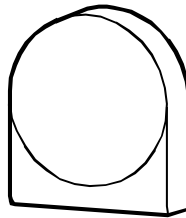


Fig. 1

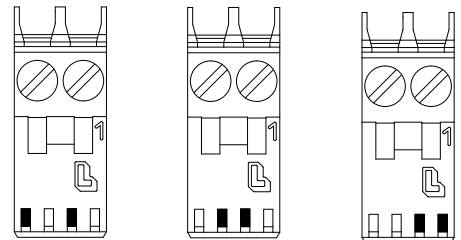


Fig. 2

1.3 FITTING THE OUTSIDE SENSOR

The 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 sensor should be located to avoid any heating effect from the boiler flue or other heat source and be in free air space.

Use a small flat bladed screwdriver to remove the outside sensor cover as shown in Fig 3.

Screw the sensor to the wall and wire a twin core 0.6mm² cable to the sensor via a cable gland, as shown in Fig 4.

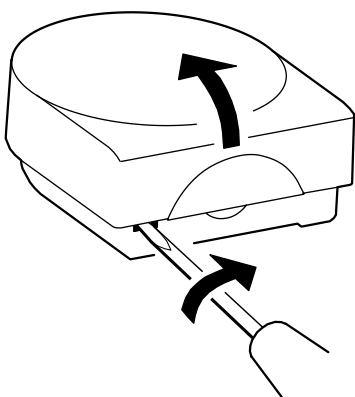


Fig. 3

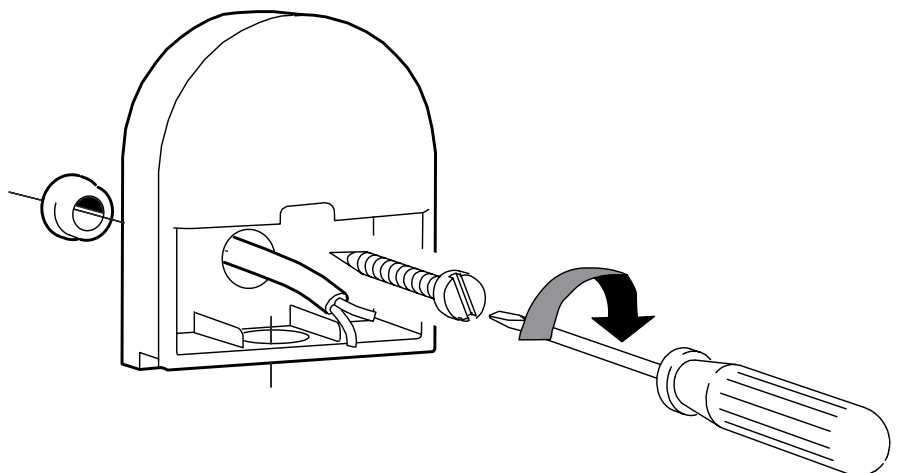


Fig. 4

INSTRUCTIONS

1.4 CONNECTING THE OUTSIDE SENSOR

Switch off and isolate the boiler. The cable between the sensor and the boiler should be no greater than 20m. Avoid running this cable alongside mains voltage cables. Use a screened cable in electrically noisy environments.

Connect the outside sensor wiring to connector I9_CN_B as follows. This connector is part of the Sensors connector kit:

1. Connect the Outside Sensor+ wire to pin 1 of connector I9_CN_B.
2. Connect the Outside Sensor- wire to pin 2 of connector I9_CN_B.

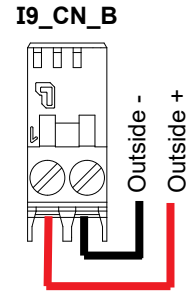


Fig. 5

These connections are shown in Fig 5.

Insert connector I9_CN_B into Installer connector I9, as shown in Fig 6.

Refer to the boiler manual for cable routing into the boiler. Secure the cables with existing cable retention clamps or cable tie slots that are on the boiler main control panel. Ensure that isolation is maintained relative to 240V wiring. The boiler will automatically configure for outside sensor control when it is powered up again.

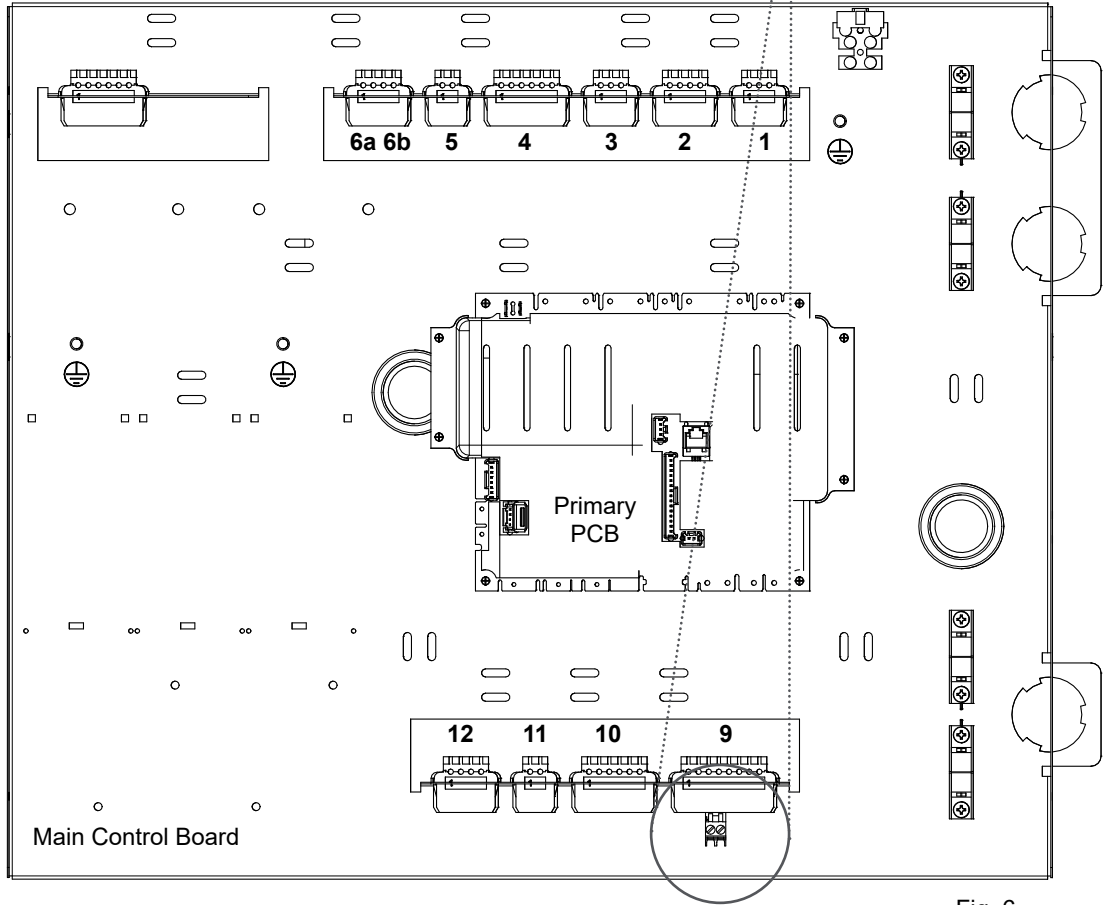


Fig. 6

1.5 BOILER FLOW TEMPERATURE CONTROL

The boiler flow temperature setpoint is calculated using the graph shown in Fig 7. The flow temperature will be varied between 30°C and 80°C.

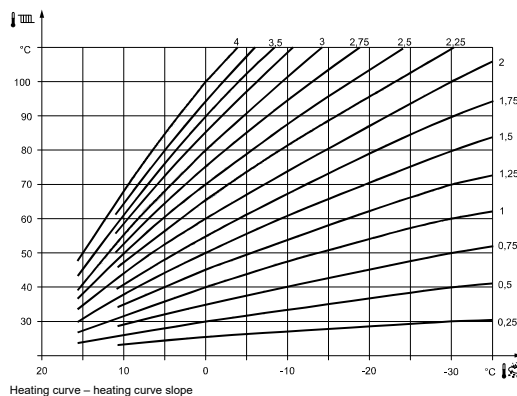


Fig. 7



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 recycle 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.



FM 59915

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