

# Installation instructions

## For contractors



## Outdoor sensor kit Z007 933

For Vitodens 100-W Compact (type WB1B)

### General installation instructions

These instructions are for Vitodens 100 Compact boilers serving central heating and hot water. The weather compensation outdoor sensor can only be used in conjunction with the cylinder demand box supplied. [This is not needed if the installation is for central heating only - without hot water. In this case, use outdoor sensor kit Z006 506 instead.]

Y-Plan mid-position valves (eg Honeywell V4073A) must be wired to operate as a W-Plan, as described.

Use the Internal wiring diagram overleaf for plug in timers or base stations.

Use the External wiring diagram overleaf for separately mounted equipment.

A room thermostat may be connected in addition to the outdoor sensor.

The outdoor sensor kit (Z007 933) consists of:

Outdoor sensor	7818 116	have bought sensor and lead.
Connection lead	7296 465	
Cylinder control box	7296 968	

### Functions and operating conditions in weather compensated mode

In weather compensated mode, the boiler temperature is regulated subject to the outside temperature.

Installation of the outside temperature sensor:

- North or north-western wall, 2 to 2.5m above ground level; in multi storey buildings, in the upper half of the second floor
- Not above windows, doors or ventilation outlets
- Not immediately below balconies or gutters
- Never render over
- 2-core lead, max 35m length with a cross-section of 1.5mm<sup>2</sup>

#### Option 1: outdoor sensor with external time control

## EXTERNAL TIME CONTROL

### Motorsised Valve Connections:

These wires to be connected to wiring centre terminal strip in addition to those shown below

Honeywell W Plan	2	1	8 & 9	-	-	-	-	-	-	-	7 to 12
Honeywell Y Plan	2	1	-	8	8	9	9	9	9	9	7 to 12
Honeywell S Plan CH Valve	2	1	8	10	-	9	-	-	-	-	-
Honeywell S Plan DHW Valve	2	1	7	10	-	12	-	-	-	-	-
Wire Colour	Yellow/Green	Blue	Brown	Grey	White	Orange	-	-	-	-	-
							Link on wiring centre terminal strip				

\*\*\* - If the cylinder limit thermostat is not required then replace it with a link.



Where do I put wiring for

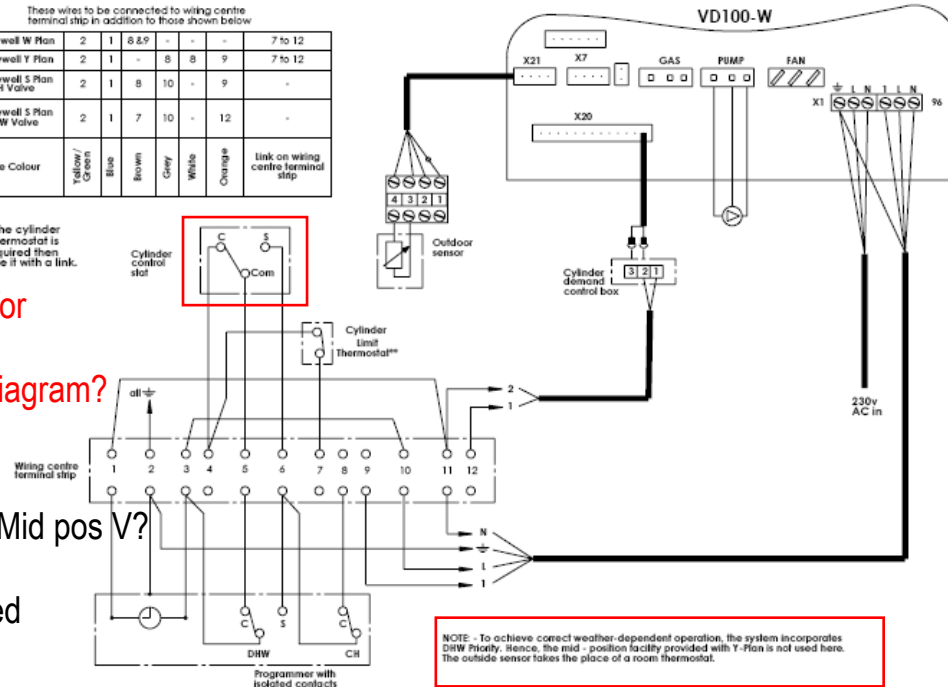
mid Pos valve in this diagram?

SL on 9 - orange wire from Mid pos V?

on 8 - white & grey combined

on 11 - blue on Neutral

on 3 - brown on Live



To achieve correct weather dependent operation, the system incorporates DHW priority. Hence the mid position facility provided with Y plan is not used here

Option 2: outdoor sensor with internal time control (Viessmann accessories)

# INTERNAL TIME CONTROL

(Do not select Central Heating Only. Hot Water must be enabled with Central Heating)

## Motorised Valve Connections:

These wires to be connected to wiring centre terminal strip in addition to those shown below

Honeywell W Plan	1	2	3	-	-	-
Honeywell Y Plan	1	2	-	3	3	NC
Honeywell S Plan CR Valve	1	2	3	NC	NC	NC
Honeywell S Plan DRW Valve	1	2	7	NC	NC	NC
Wire Colour	Yellow / Green	Blue	Brown	Grey	White	Orange
NC = no connection (but make safe)						

\*\* - If the cylinder limit thermostat is not required then replace it with a link.

NOTE - To achieve correct weather-dependent operation, the system incorporates DRW Priority. Hence, the mid-position facility provided with Y-Plan is not used here. The outside sensor takes the place of a room thermostat.

