

COMPENSATOR 0-10VDC FOR BOILERS OR MIXING VALVES

E14-PCOM1

- This compensator can be used to adjust boiler flow temperature in relation to changes in outside temperature.

The 0-10VDC output can be used to modulate an actuator/mixing valve.

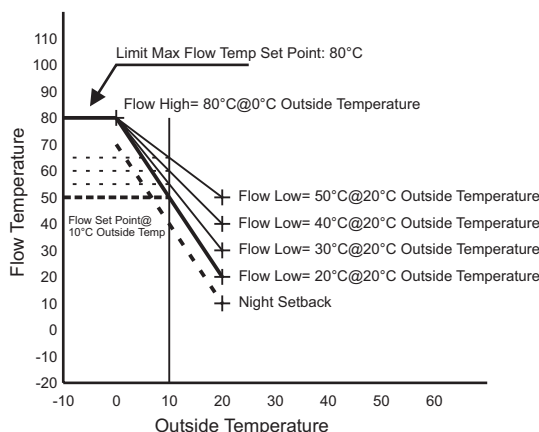
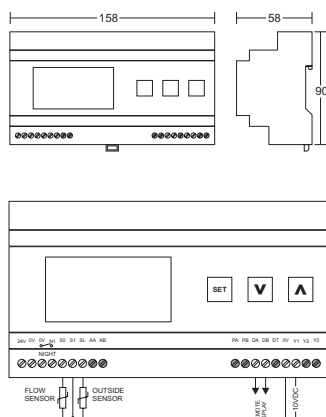
Alternatively the 0-10VDC signal can be wired to a relay interface unit (E4RM for example) to switch several boilers in sequence.



This compensator must be used with an outside temperature sensor and a flow temperature sensor.

Supply	24VAC/DC
Temp range	-20 to 110 degC
Temp resolution	0.1deg C
Prop band	1 to 40degC
Integral time	0 to 300s
Output	0-10VDC
Output resolution	0.1VDC
IP rating	IP54

DIMENSIONS AND WIRING



Sensor cables should be screened cable 7/0.2mm max length 100m with the screen earthed at the controller end only.

SETTINGS:

Setting the Control mode

Whilst holding the **V** push button turn the power on.

The display will show SET and CONTROL MODE.

Use the **A/V** to scroll through the modes and confirm with the SET push button the mode required.

The controller will then begin to operate normally.

Setting of Flow temperatures, Proportional band etc

With the temperature indication displayed press the SET push button to step through the desired parameters and the value can be set using the (up arrow) and **V** buttons.

By repeatedly pressing the SET button the parameters of:

SET POINT CALCULATED (display only)

PROPORTIONAL BAND Y1

INTEGRAL TIME

FLOW HIGH

FLOW LOW

NIGHT SETBACK

Can be displayed and set up

After 10s the display will revert to the temperature indication.

Note: the set point does not have to be set up because this is calculated from the Flow low and Flow high.

The night setback is an offset subtracted from the calculated set point.

Viewing the output data

With the temperature displayed press the **A** and the following temperatures will be displayed.

TEMP FLOW

TEMP OUTSIDE

Y1

The DC output value is shown in %. i.e 10VDC is 100%

This display will be maintained until the **A** is pressed after which the temperature will be displayed again.

Reverting to default settings

Start with the power OFF

Hold the **A** pushbutton down whilst turning on the power.

LoD and deFLd will be displayed followed by the display of temperature.

Turn off the power and turn on again. The controller will now be in its normal state.

More detailed instructions are shown on the Product Data sheet supplied with the product.

ACCESSORIES

E10-X Outside temperature sensor

E10-I Immersion temperature sensor

E10-TD Digital remote temperature display

Note: The E10-S110 Digital Setpoint adjuster is not available with the E14-PCOM1