Data Sheet

SPC Standard Programmable Controller

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The unit is designed to control the ventilation requirements of small buildings or individual zones within larger buildings. It measures temperature and CO_2 levels and operates ventilation units to ensure comfortable internal conditions using natural ventilation.

This controller is based on a programmable logic controller (PLC) which is small, low cost, very powerful and incorporates a small screen and override pushbuttons.

The controller shown above has fascia mounted overrides but a plain fronted version is available where overrides are remote from the panel.

Features

The controller is available in two versions with different inputs and outputs –

	Standard	Extended	Used for
Analogue inputs	6	8	Room temp, CO_2, low limits, overrides, etc
Digital inputs	2	10	Switches, fire alarm, timeswitch, rain sensor, etc
Digital outputs	4	10	Indicator lamps, fans, pumps, windows, etc
Analogue outputs	2	2	Positioning dampers, heating valves, etc

Analogue inputs can be used as digital inputs if required.

The unit is programmed via a laptop computer using a graphical software package. The programme is downloaded to the PLC directly from the laptop or indirectly by using a memory cassette. The PLC has an optional Modbus serial communication interface which can be added to communicate to other PLCs on a network or to a BMS system.

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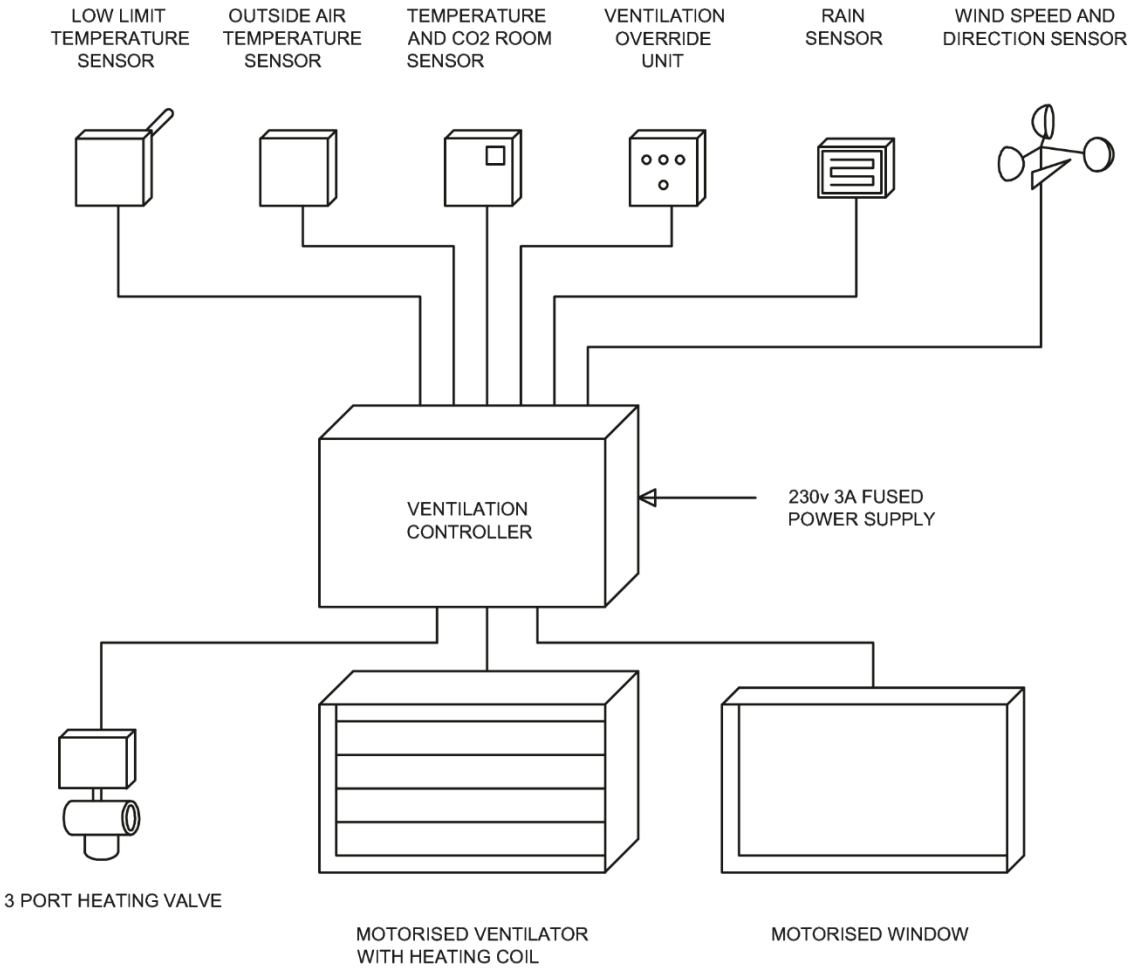
EXAMPLE CONTROL SYSTEM FOR NATURAL VENTILATION

TEMPERATURE AND CO2 CONTROL WITH OVERRIDE, OUTSIDE TEMPERATURE SENSOR, WIND SPEED AND DIRECTION, HEATING COIL WITH LOW LIMIT,MOTORISED WINDOWS AND RAIN SENSOR.



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