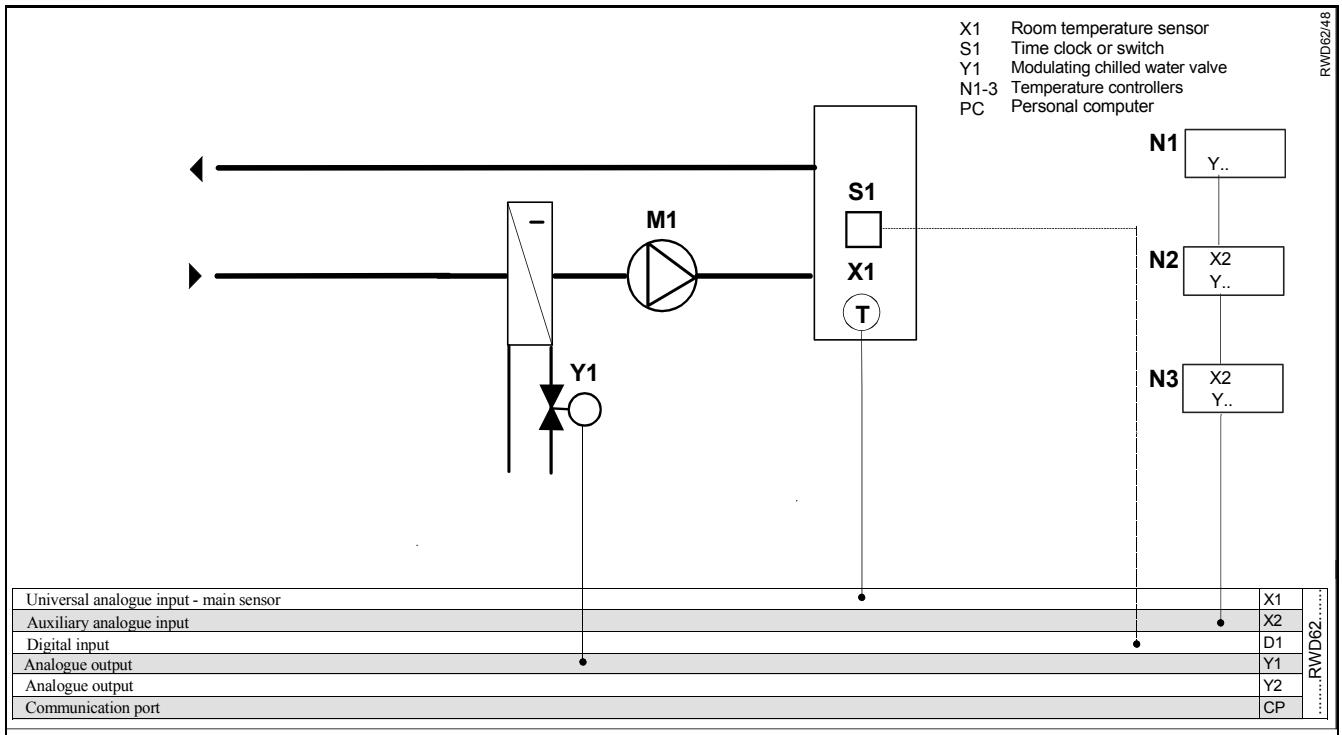


RWD62 Universal Controller
Application 48
Maximum priority

Room temperature control
 Chilled water control valve

- Control (P or PI)
- Room temperature control
- Proportional control (0..10Vdc) of the chilled water valve.
- Maximum priority function to control the cooling valve.
- Optional day / night set point adjustment .



Supplemental features

Control

- Room temperature sensor can be selected as Ni1000, Pt1000, or active sensor.
- Adjustable proportional band of analogue output Y1.
- Adjustable Integral action function selection and adjustment for Y1
- The cooling coil control valve is controlled by the highest call for cooling from a number of zones via the priority function in the temperature controller.
-

Operating modes

- Day / night set points can be selected via time clock or switch.

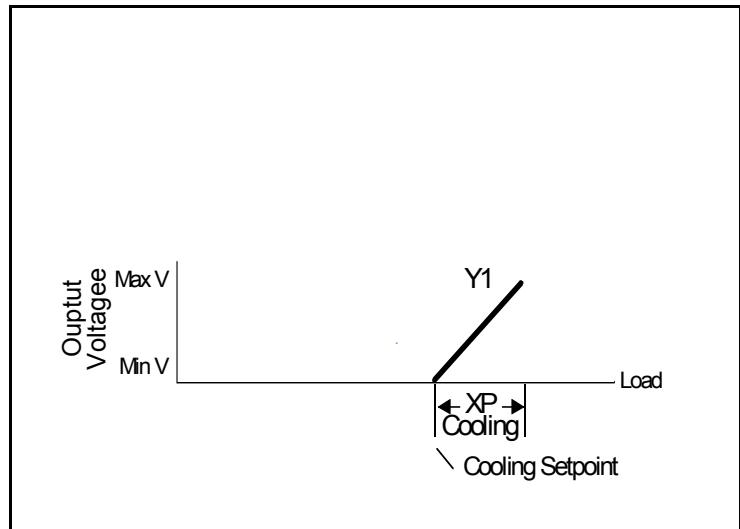
Description of operation

The temperature sensor senses the room conditions and on a rise in temperature the RWD62 via Y1 analogue output modulates the chilled water valve as determined by the cooling set point and proportional band (XP) setting.

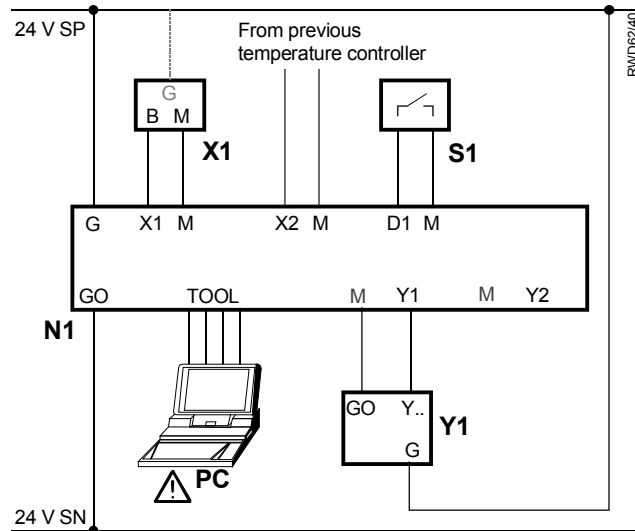
The connection of a number of temperature controllers in series, the cooling Y output of the previous controller connected to the X2 input of the following controller, together with the maximum priority function in each controller, results in the highest call for cooling controlling the position of the chilled water valve.

Cooling sequences

Function diagram



Connection diagram



RWD62

- N1 RWD62 controller
- X1 Main temperature sensor
- X2 Input from previous controller
- S1 Time clock or switch
- Y1 Cooling control valve with 0..10Vdc input
- PC Personal computer

Main Display



The main display shows ,

- Y1 output in Volts dc. (0..10V = 0..100% range)
- Whether day or night set point is selected. (☒ = day, ☒ = night)
- X1 value (room temperature) in ° C.

Other displays are available by pressing the + button, and the various displays are listed below in sequence from the main display.

On entering any of the four set point displays, the setpoint on display can be adjusted by pushing the ● enter/save button, increase value by pressing the ▲ + button or decrease the value by pressing the ▼ - button, and when the required value is reached, press the ● enter/save button to save the new value.

The alternative displays return to the main display after 20 seconds.

Press buttons	Action	Current display	Selected display	Selected display comments.
▲	Push + button	Y1 ☒ X1	SP - c ☒ 28.0c	Y1 cooling day set point.
▲	Push + button	SP - c ☒ 28.0c	SP - c ☒ 32.0c	Y1 cooling night set point.
▲	Push + button	SP - c ☒ 32.0c	X1 22.0c	X1 - main temperature sensor reading
▲	Push + button	X1 22.0c	X2 5.0	X2 – cooling analogue input value in Vdc to one decimal point.
▲	Push + button	X2 5.0	Y1 5.0	Y1 – heating analogue output value in Vdc to one decimal point
▲	Push + button	Y1 5.0	Max Prior  48	Control sequence diagram and application number display.
▲	Push + button	Max Prior  48	Y1 ☒ X1	Back to main display.

Values shown are either default values or nominated for information only