

SUNDIAL S PLAN PLUS

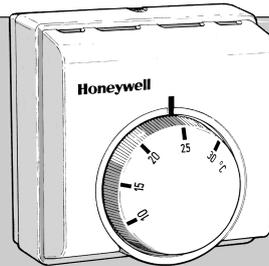
S PLAN PLUS

FEATURES

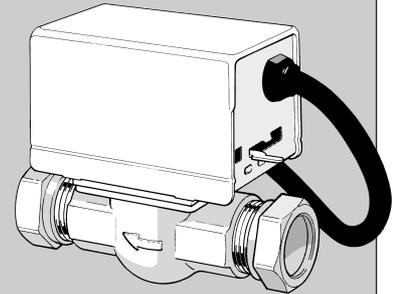
- Independent control of two heating zones
- Independent control of domestic hot water temperature
- Pump and boiler switched off when space and hot water temperature requirements are satisfied
- Additional heating or hot water zones may be provided
- Provides full control of fully pumped installations

OPTIONS

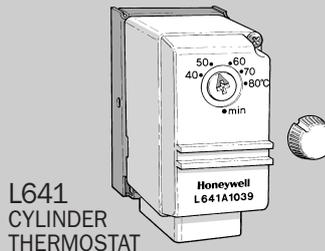
- Programmable thermostats in heating zones to provide 'Best Practice' system
- Radiator thermostats may be fitted to provide temperature control in selected areas
- CM Zone can provide wireless boiler interlock for individual radiator control



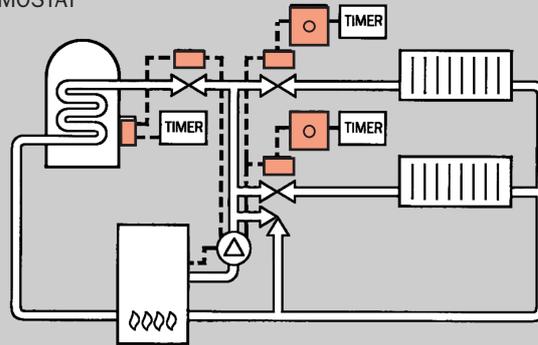
2 X T6360
ROOM THERMOSTAT



3 X V4043
ZONE VALVE



L641
CYLINDER
THERMOSTAT



APPLICATION

The Sundial S Plan Plus satisfies the minimum requirements of Building Regulations Part L1 for dwellings over 150m². The system provides independent time and temperature control of multiple heating circuits and a separate hot water circuit in fully pumped systems.

Independent time control of the heating zones is provided by a programmer and timeswitch. Temperature control can be provided by two room thermostats.

Independent time and temperature control with setback in each zone can be achieved with programmable thermostats in each heating zone.

SUNDIAL SYSTEMS

Honeywell

Installation

Valve - Water flow must be in the direction of arrow on the valve body.

Room Thermostat - One for each heating zone. The thermostats must be located where not subject to extraneous heat gains, direct sunlight or draughts.

Cylinder Thermostat - For optimum performance the thermostat should be located between $\frac{1}{4}$ and $\frac{1}{3}$ up the cylinder from the floor.

Time Control

Standard Practice

A 2 channel programmer to control the HW and one heating zone and a time switch to control additional heating zones.

Best Practice

A time switch to control HW and a programmable thermostat for each heating zone.

Bypass Valve - An automatic bypass valve should be fitted to the heating system to stop wastage of energy and prevent increased pressure within the circuit.

The Sundial S Plan Plus provides the installer with a large degree of flexibility when wanting to control multiple heating and/or hot water zones within one building.

Separating the heating into several zones provides greater flexibility in operation with consequent improvements in temperature control and efficiency.

Operation

On demand for heat from a timer and thermostat the respective zone valve will open. Just before the valve reaches its fully open position, the auxiliary switch will be closed and put a demand on the boiler and pump.

When all zones are satisfied, the valves will close and the boiler and pump will switch off.

Specification

Standard Sundial S Plan Plus comprises:

1x V4043H per zone : 22mm or 28mm zone valve

Heating & Hot Water Timing Control

ST9400C1000 : 7 day full programmer
or
ST9400A1002 : 1 day full programmer

Temperature Control

L641A1039 : Cylinder thermostat
T6360B1028 : Standard room thermostat

Automatic Bypass Valve

DU144A1001 OR : 22mm straight auto bypass valve
DU145 - $\frac{3}{4}$ B : 22mm angled auto bypass valve

Heating Zone Control

Wireless options:

Y6630D1007 : Wireless analogue room thermostat
CMT921A1042 : 1 day programmable thermostat
CMT927A1049 : 7 day programmable thermostat

Hard wired options:

T6620B1008 : DT200 digital room thermostat

Best Practice

CMT901A1044 : 1 day programmable thermostat
CMT907A1041 : 7 day programmable thermostat

Frost protection

T4360A1009 : Frost Thermostat
L641B1004 : Low limit Pipe Thermostat

Typical Wiring

Note: It is recommended that the 10 way Junction Box or Sundial Wiring Centre should be used to ensure first time, fault free wiring.

If using the V4043H1080 (1" BSP) or V4043H1106 (28mm), the white wire must be electrically isolated

