



EVERYTHING UNDER CONTROL

The All-In-One Heating Controller

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Smile controllers are ideal to gain maximum efficiency from various energy sources, such as solar, solid fuel, oil/gas boilers, heat pumps and district heating. They not only minimise energy cost, but also provide easy installation and userfriendly operation.

Features

- Optimising energy efficiency from multiple sources
- A huge range of applications
- Pre-set basic programs to reduce planning and start-up effort
- Fast and easy mounting in cabinet or wall, helped by a spacious wiring box and
- Intuitive, simple operation helped by symbol keys, large rotary control, push buttons and large back-lit LED display
- Easily expandable from stand-alone controller to a small network
- Stylish room devices (optional) simplify remote control

A range of applications

















Solar Systems Solid Fuel Heating Oil/Gas Boiler

District Heating Radiator Heating Underfloor Heating Domestic Hot Water

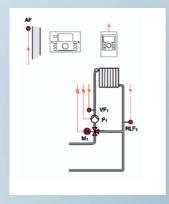
The Smile (SDC) controller offers a portfolio of models covering different application requirements, from simple extensions (SDC3-10) up to multi-source, complex applications (SDC12-31). All types are available as wall or panel-mounted versions.

Smile is suitable for use with all types of heat generators, including oil/gas/ solid fuel boilers, solar collectors, heat pumps and district heating systems.

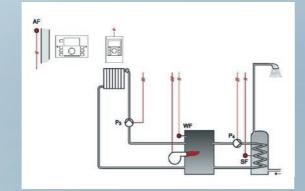
It can control two mixed circuits, a direct heating circuit along with domestic hot water and also two boilers or other heat sources.

Solar applications using a twin coil cylinder can also be incorporated into the standard SDC12-31 controller.

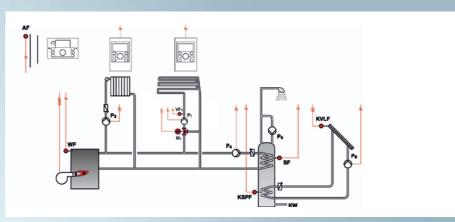
Up to five Smile controllers can be networked together via a two-wire bus, thus permitting a wide variety of different applications, dependent upon complexity. Applications can be set up on-site easily using its dial.



Smile makes it easy to extend existing installations.



Smile provides smart energy-saving features to a wide variety of standard heating and domestic hot water (DHW) applications.



Smile is ideal to combine multi-fuel/solar energy sources to gain maximum efficiency for heating and domestic hot water applications.



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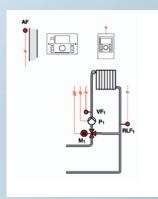
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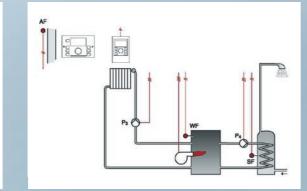
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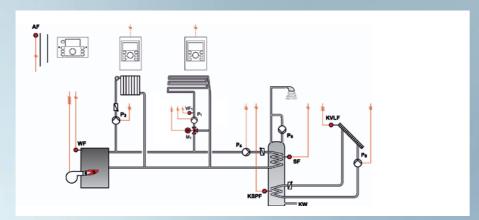
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Benefits

Home and building owners



- Superb energy efficiency due to energy-saving features such as outside temperature compensated control, heat creation linked to demand and self-adaption to a building's thermal characteristics.
- Easy operation through intuitive menu structure, dedicated buttons and clear back-lit display.
- Smile rooms units can be individually disabled to prevent tampering.
- Users can program and select up to 15 "vacation" profiles, and other profiles such as "party" which prolongs the heating period.
- Frost protection and legionella protection are available.

Installers



Wiring box installation



With base for wall mounting

- Fast application selection using basic preset programs. Simple hydraulic selection via 4 digit code.
- Easy mounting in cabinet or wall, thanks to spacious wiring box and push-in spring terminals. All wiring terminals are included in wall plate - even "cabinet earth".
- Fast wiring with 2-wire bus for interconnecting various room units and up to four additional Smile controllers without additional interface.
- Supports standard Honeywell NTC20K room sensors as well as matching room units (SDW10 and SDW30).
- Service interface on controller front allows PC connection for easy maintenance.

Specifiers



- A Smile controller can be used with several combinations of heat sources (e.g. oil, gas, solid fuel, solar).
- Combination can include modulating condensing OpenTherm boilers, using OpenTherm interface
- High flexibility due to configurable inputs and outputs (3 in, 2 out).
- Up to two mixing heating circuits, one unmixed heating circuit and DHW boiler can all be managed by a single Smile controller.
- Complete hydraulic application documentation, including wiring diagrams and technical documentation available for easy planning.
- All supported heating, and district heating applications can be covered by one Smile controller (e.g. SDC12-31).
- Up to 5 Smile controllers are supported on the same communication bus. This enables the combination of different controllers in one installation and also enables the addition of controllers for upgrades.

Technical Data	
Power supply	230 V +6% / -10%
Nominal frequency	5060 Hz as per DIN IEC 38
Power consumption	max. 5.8 VA
Fusing	max. 6.3 A (slow)
Contact load of output relay	2 (2) A
Bus interface	for connecting additional SDC or SDW devices
Max. bus length	50 m
Sensor	Honeywell NTC20K sensor + 1 x PT1000 sensor
Protection rating	IP 30
Protection class	II (as per EN 60730), III (as per EN 60529)
EMC	EN 55014 (1993)
Susceptibility to interference	EN 55104 (1995)
E.C. conformity	89/336/EEC
Dimensions (wiring box installation)	144 x 96 x 75 mm (W x H x D)
Dimensions (wall mounting)	285 x 96 x 90 mm (W x H x D)
Connection	pluggable screw terminals for wiring box installation,
	spring terminals for wall mounting

System Components





SDW10

With the SDW10 Room Controller, everything can be controlled remotely: room temperature, room temperature setpoint, and changing the operating mode for one heating circuit.

SDW30

With the SDW30 Digital Remote Control, not only can the room temperature be displayed, but the device can also be operated remotely (e.g. from living quarters).

Automation and Control Solutions

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Find out more

For more information about Smile visit us online at www.smile-control.com

