

Stand alone controllers

Heating, District Heating and Multi-Fuel OTC Controller, SMILE



Microprocessor controller with fixed hard- and software. Configuration with 15 sets of parameters. For all Heating and District Heating applications with:

- direct heating circuit and/or mixed heating circuit(s)
- boiler burner
- domestic hot water
- heat exchanger valve

Control software	the software application can be selected, by keying in a planttype code, and can be adjusted with parameters; or use no code number and configure the application with the parametersets only
Modes of operations	heating without time program, eco, summer, manu, auto
Clock functions	heating with own week clock, DHW with own week clock, 15 vacation periods
Protection class	IP30
Max. ambient temperature	50 °C
Power supply	230 Vac; 5,8 VA
Batteries	included 3VLi
Bus system description	• Honeywell bus sytem for max. 5 SMILE controllers, and 3 setpoint units per controller; max. buslength 100 m; the controller can also be used as stand-alone controller. • OpenTherm for all models, except SDC3-40..
Hardware outputs	all outputs are relay outputs with a maximum contact load of 2A 250V • the standard relay outputs are for pumps and valves, and are controlled from the selected application; mixing valves need 2 output relays • the function for the additional relay outputs can be set with parameters
Applicable sensor types	NTC 20 kohm
Additional description	One of the hardware inputs is for a pulse contact. This can be used for example for counting running hours. With parametersettings the amount of counted pulses can be used for switching pumps or boilers.

Panel mounting, HxWxD = 96x144x75 mm; Display languages and documentation: German, French, English, Dutch; 11 other display languages also supported

Burner output	Heating circuit	Domestic Hot Water	Additional output	Hardware inputs	Type
1 stage	pump	loading pump	–	4 (1 var.)	SDC3-10PM
–	1x: mixing valve + pump	–	–	4 (1 var.)	SDC3-40PM
1/2 stages	1x: mixing valve + pump; pump	loading pump	–	6 (SDC 1v DHC 3v)	SDC7-21PM
1/2 stages	1x: mixing valve + pump; pump	loading pump	2 variable	11 (3 var.)	SDC9-21PM
1/2 stages	2x: mixing valve + pump; pump	loading pump	2 variable	12 (3 var.)	SDC12-31PM

Wall mounting, HxWxD = 96x285x90 mm; Display languages and documentation: German, French, English, Dutch; 11 other display languages also supported



Burner output	Heating circuit	Domestic Hot Water	Additional output	Hardware inputs	Type
1 stage	pump	loading pump	–	4 (1 var.)	SDC3-10WM
–	1x: mixing valve + pump	–	–	4 (1 var.)	SDC3-40WM
1/2 stages	1x: mixing valve + pump; pump	loading pump	–	6 (SDC 1v DHC 3v)	SDC7-21WM
1/2 stages	1x: mixing valve + pump; pump	loading pump	2 variable	11 (3 var.)	SDC9-21WM
1/2 stages	2x: mixing valve + pump; pump	loading pump	2 variable	12 (3 var.)	SDC12-31WM

Stand alone controllers



Panel mounting, HxWxD = 96x144x75 mm; Display languages and documentation: Romanian, Russian, Polish, Hungarian, Czech, Turkish, English

Burner output	Heating circuit	Domestic Hot Water	Additional output	Hardware inputs	Type
1 stage	pump	loading pump	–	4 (1 var.)	SDC3-10N
–	1x: mixing valve + pump	–	–	4 (1 var.)	SDC3-40N
1/2 stages	1x: mixing valve + pump; pump	loading pump	–	6 (SDC 1v DHC 3v)	SDC7-21N
1/2 stages	1x: mixing valve + pump; pump	loading pump	2 variable	11 (3 var.)	SDC9-21N
1/2 stages	2x: mixing valve + pump; pump	loading pump	2 variable	12 (3 var.)	SDC12-31N



Panel mounting, HxWxD = 96x144x75 mm; Display languages and documentation: Italian, Spanish, Swedish, Norwegian; 11 other display languages also supported

Burner output	Heating circuit	Domestic Hot Water	Additional output	Hardware inputs	Type
1 stage	pump	loading pump	–	4 (1 var.)	SDC3-10PMN
–	1x: mixing valve + pump	–	–	4 (1 var.)	SDC3-40PMN
1/2 stages	1x: mixing valve + pump; pump	loading pump	–	6 (SDC 1v DHC 3v)	SDC7-21PMN
1/2 stages	2x: mixing valve + pump; pump	loading pump	2 variable	12 (3 var.)	SDC12-31PMN

Sensors

Outdoor temperature sensor NTC	AF20
Outdoor temperature sensor, NTC, strap on	T7414C1012
Water temperature sensor, NTC, strap on pipe	VF20A
Water temperature sensor, NTC, with well (135 mm)	VF20T
Water temperature sensor, NTC, with well (300 mm)	VF20L
Water temperature sensor NTC, cable type	KTF20
Room temperature sensor NTC	RF20
Tamperproof temperature sensor UK	SDW10BCUK

Remote setpoint selector with temperature sensor, night, day and auto switch

Setpoint unit Western Europe	SDW10WE
Setpoint unit Eastern Europe	SDW10EE

Comfortable digital remote setpoint selector with display, temperature sensor, access to the controller functions

Digital setpoint unit Western Europe	SDW30
Digital setpoint unit Eastern Europe	SDW30N

Tamper proof covers for setpoint units

Cover for SDW10..	TG510A
Cover for SDW30..	TG511A

Mounting accessories for panel models

Connecting base for wall installation	SWS-12
Base for touch protection	SCS-12
Reducing frame for panel cut-out on controllers ZG52 /53 /55 / 82 /85 or ZG215 / 215V /252 /254	SRR
Terminal block set for Smile controller (N-version), 10 sets	TBS-SMILE
Single Terminal block set for Smile controller (N-Version)	TBS-smile-1kit

