

Sorel STDC V3 Temperature Difference Controller

The STDC temperature difference controller is made for solar thermal and solid fuel boilers. The STDC V3 has 9 basic systems, 3 temperature inputs for PT1000 sensors, one Relays output 230VAC and one 0-10VDC or PWM output.

Technical Data

Sorel STDC V3 Temperature Difference Controller / Art.# 4227	
Power supply	230 VAC \pm 10%, 50 – 60 Hz
Power consumption (Stand-by)	1.5 – 2 W (0.5 W)
Internal Fuse	1
Protection Class	IP40
Protection Class	II
Overvoltage category	II
Degree of pollution category	II
PT1000 Measurement-range	-40°C...300°C
PT1000 inputs	3 (S1, S2, S3)
Mechanical Relay R1	230 VAC, 460 VA, NO and NC
0...10V output V1	\pm 10%, 10k Ω Load 0...10V or PWM output
PWM output V1	1 kHz, level 10V 0...10V or PWM output
Cable length S1	< 30 m
Cable length S2, S3	< 10 m
Cable length relay R1	< 10 m
Cable length V1 0...10V/PWM	< 3 m
Operation temperature	0°C...40°C, max. 85% RH at 25°C
Transport/Storage temperature	0°C...60°C, no moisture condensation
Housing Design	2-part, ABS-plastic
Installation Methods	Wall installation, optional Panel installation
Overall Dimensions	115 mm x 86 mm x 45mm
Aperture installation dimensions	108 mm x 82 mm x 25,2 mm
Display	Fully graphical display, 128 x 64 dots
Real time clock	RTC with 24h power reserve
Operation	4 entry keys
Menu Language	EN, DE, FR, ES, IT, PT, PL, CZ, DK, GR, HR, HU, NL, RU, SE, FI, TR, BG

Scope of Supply
STDC V3 Temperature Difference Controller
4 strain relief clips with 8 screws
Replacement fuse 2AT
2 screws 3,5 x 35 mm, 2 plugs 6mm for wall installation
Installation and Operation instruction

Hydraulic variants	
1	Solar with reservoir
2	Solar with pool
3	Solid fuel boiler with storage
4	Storage transfer
5	Heating-circuit return flow increase
6	Thermostat
7	Universal ΔT
8	Shutoff valve
9	Solar with pool and heat exchanger



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