Temperature Difference Controllers

STDC
Small Temperature Difference Controller
for simple solar, storage and solid fuel boiler-systems

Features

- For 9 basic systems with solar or solid fuel boiler
- Intuitive operator guidance via 4 input keys
- Full text and graphical display with animations
- High-contrast lighted display with 128x64 dots
- Function check and graphical system analysis with long-term memory for statistics about heat quantity and operating hours
- RTC Real Time Clock with >24h power reserve
- White housing RAL9003, protection class IP40
- Dimensions HWD 115x86x45mm
- Mounting hardware, spare fuse and user manual

Menu languages (additional languages on request)

STDC	Version 1	Version 2	Version 3	Version 4
Sensor inputs	3	3	3	3
Relay outputs 230V	1	1	1	1
of which for speed control of standard pumps	0	1	0	1
Outputs 0..10V or PWM signal for speed control of high-efficiency pumps	0	0	1	1
Number of applications	9	9	9	9
Simple heat metering	✓	✓	✓	✓
Time and temperature-controlled thermostat function	✓	✓	✓	✓
Battery-backed Real Time Clock	✓	✓	✓	✓
Legionella protection via solar	✓	✓	✓	✓
Setup wizard	✓	✓	✓	✓
System protection	✓	✓	✓	✓
Collector protection	✓	✓	✓	✓
Storage protection	✓	✓	✓	✓
Anti-freeze programs	✓	✓	✓	✓
Recooling	✓	✓	✓	✓
Start logic for vacuum tube collectors	✓	✓	✓	✓
Control program for self-dumping systems (drain-back)	✗	✓	✓	✓
Data storage with statistics and graphic analysis	✓	✓	✓	✓
Error memory and analysis with date and time	✓	✓	✓	✓
Menu blocker	✓	✓	✓	✓

Temperature Difference Controllers

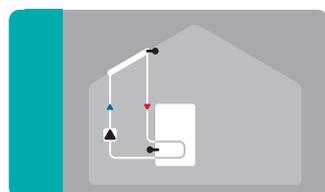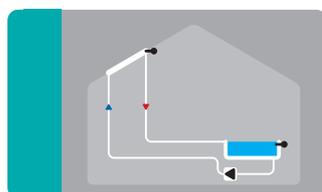| Version 1		Version 2	
Art. no. 10001 - STDC V1		Art. no. 10002 - STDC V2	
Art. no. 10201 - STDC V1 with 2 sensors TT/S2 PT1000		Art. no. 10202 - STDC V2 with 2 sensors TT/S2 PT1000	
Art. no. 10301 - STDC V1 with 3 sensors TT/S2 PT1000		Art. no. 10302 - STDC V2 with 3 sensors TT/S2 PT1000	

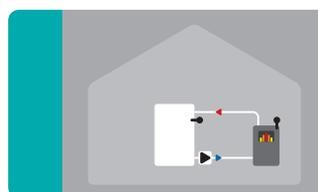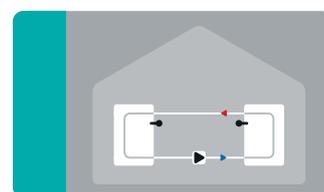| Version 3		Version 4	
Art. no. 10003 - STDC V3		Art. no. 10004 - STDC V4	
Art. no. 10203 - STDC V3 with 2 sensors TT/S2 PT1000		Art. no. 10204 - STDC V4 with 2 sensors TT/S2 PT1000	
Art. no. 10303 - STDC V3 with 3 sensors TT/S2 PT1000		Art. no. 10304 - STDC V4 with 3 sensors TT/S2 PT1000	

Hydraulic variants STDC

Solar with storage
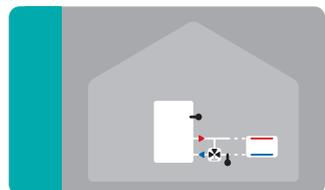
Solar with swimming pool

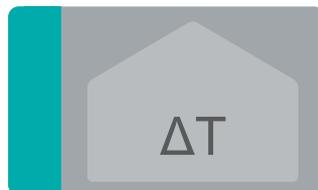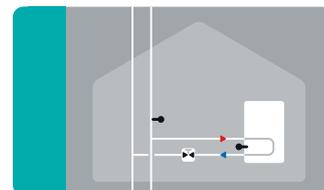Solid fuel boiler with storage

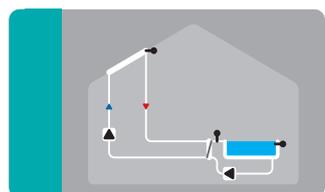Storage transfer

Return flow increase

Thermostat function

Universal DeltaT

Stop valve

V3 and V4: Solar with heat exchanger
(sensor in secondary circuit) and pool

The illustrations should be viewed only as schematic diagrams showing the respective hydraulic systems, and do not claim to be complete. The controller does not replace safety devices ander any circumstances. Depending on the specific application, additional system components and safety components may be mandatory, such as check valves, non-return valves, safety temperature liwithers, scalding protectors, etc., and must therefore be provided.

Prices ex works, excl. sales tax. SOREL GmbH Mikroelektronik terms and conditions as can be seen on www.sorel.de shall apply. Discount on request.
SOREL GmbH Mikroelektronik, Jahnstraße 36, 45549 Sprockhövel, Telefon: +49 (0)2339 6024, Telefax: +49 (0)2339 6025, www.sorel.de info@sorel.de

9