

Medium Temperature Difference Controllers

Two circuit controller for systems with 1-2 storages.



Menu languages (additional languages on request)




MTDC

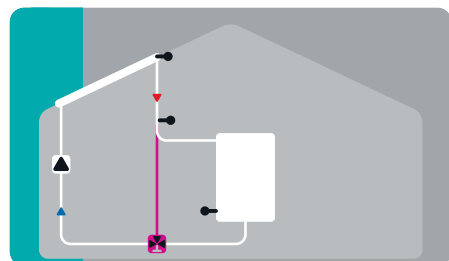
Sensor inputs	4
Relay outputs 230V	2
Outputs 0..10V or PWM signal for speed control of high-efficiency pumps	1
Number of applications	25+
Extension of pre-defined systems by selectable additional functions	✓
LEDs red/green for display of operating status	1
Statistics and graphic analysis of data memory	✓
Flow based heat metering via Grundfos direct sensor (VFS)	✗
Pressure monitoring via Grundfos direct sensor (RPS)	✗
Battery-backed Real Time Clock > 24h	✓
Time and temperature-controlled thermostat function	✓
Legionella protection via solar	✓
Legionella protection via additional heating	✓
Cooling function	✓
Setup wizard	✓
System protection	✓
Collector protection	✓
Storage protection (part of the collector protection)	✓
Anti-freeze protection	✓
Recooling	✓
Start logic for vacuum tube collectors	✓
Control program for self-dumping systems (drain-back)	✓
Function control and error memory with date and time	✓
Menu blocker	✓
CAN bus connection for SOREL Connect	✓
Data logging on microSD Card	✓
Ethernet connection	✓
Dimensions Height x Width x Depth	163mm x 110mm x 51mm
Housing Color	RAL 9003
Protection Class	IP 40
Mounting Hardware, Spare Fuse and User Manual	✓

MTDC - Additional functions for free relays


- Solar bypass
- Backup heating control
- Cooling function
- Collector field cooling
- Return flow increase
- Anti-legionella function
- Storage transfer
- Universal DeltaT
- Always on
- Thermostat 2
- Solid fuel boiler control
- Signalling with activated protection function
- Signalling with new information message
- Pressure monitoring
- Booster for fast system loading
- Heating Circuit
- Parallel operating with R1
- Parallel operating with R2

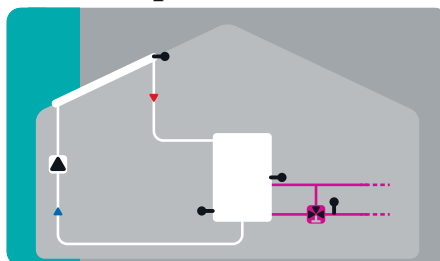
Example:

System 1 + 



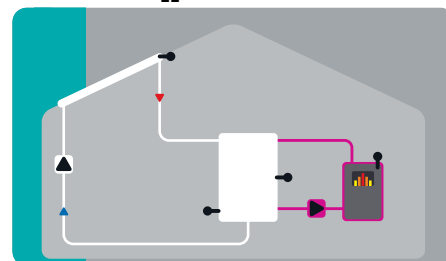
Solar with storage with additional function Solar Bypass

System 1 + 



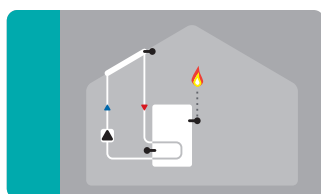
Solar with heat exchanger with additional function Return Flow Increase

System 1 + 

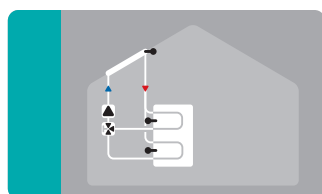


Solar with heat exchanger with additional function Solid Fuel Boiler

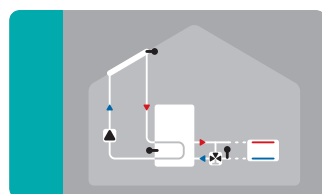
Hydraulic variants MTDC - Includes all STDC variants plus:



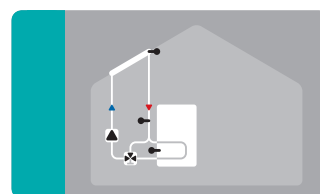
Solar with thermostat (auxiliary heating)



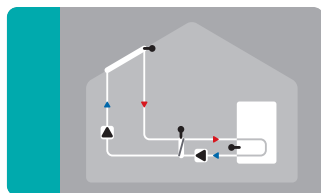
Solar with two-zone storage



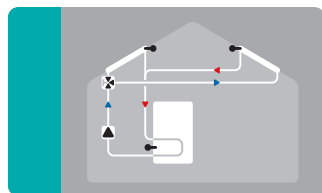
Solar with heating circuit



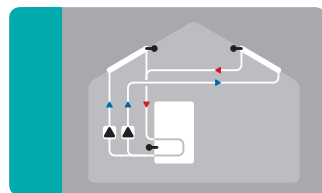
Solar with bypass



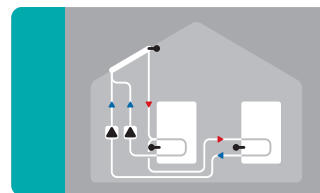
Solar with heat exchanger



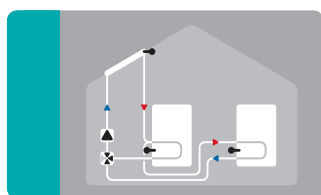
Solar with 2 collector surfaces



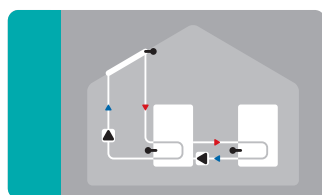
Solar with 2 collector surfaces and 2 pumps



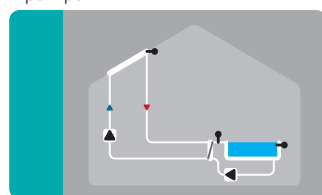
Solar with 2 storages and 2 pumps



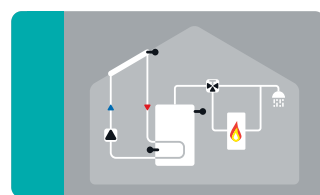
Solar with 2 storages and valve



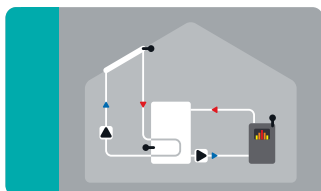
Solar with storage transfer



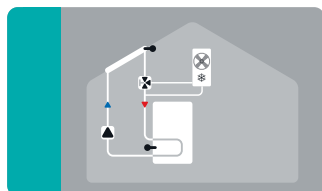
Solar with pool and heat exchanger



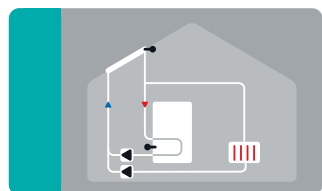
Solar with thermostat and valve



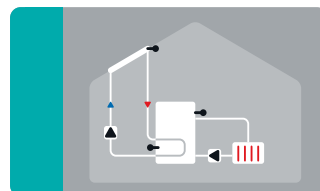
Solar with solid-fuel boiler



Solar with cooling 1 (collector cooling)



Solar with cooling 2 (collector cooling)



Solar with cooling 3 (storage cooling)

Art. no. 16005 - MTDC

Art. no. 16205 - MTDC mit 2 Fühlern TT/S2 PT1000

Art. no. 16305 - MTDC mit 3 Fühlern TT/S2 PT1000

The previous versions MTDC-V1 to MTDC-V4 with different hardware equipment, e.g. without speed-control or with speed-control of standard pumps, remain available.