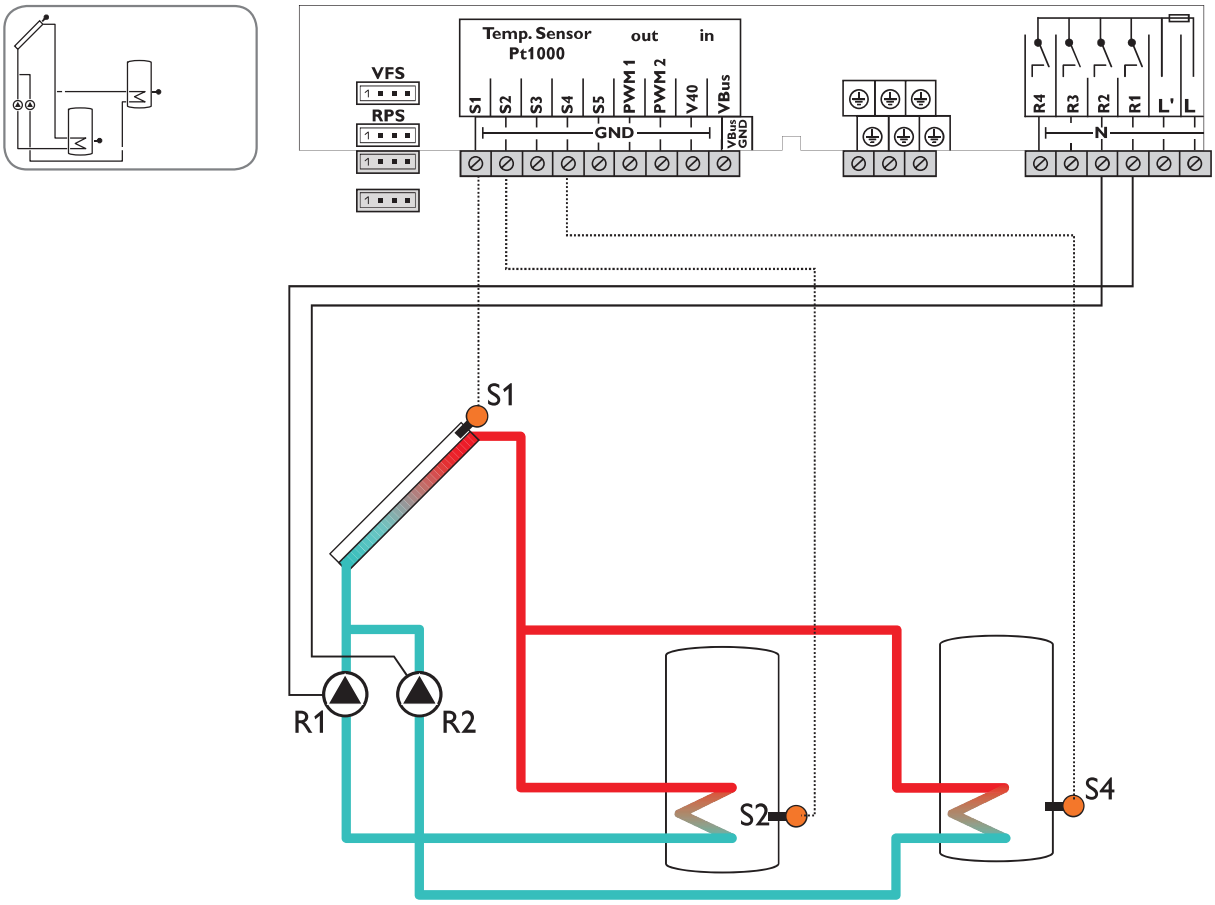
## System 6

### 2-store solar system with pump logic

The controller compares the temperature at sensor S1 to the temperatures at sensors S2 and S4. If the measured temperature differences are higher than the adjusted switch-on temperature differences, the pump (R1 and R2) will be activated and the corresponding store will be loaded up to the adjusted maximum temperature at most.




| Sensor/Terminal | Designation | Description |
|---|---|---|
| S1 | TCOL | Temperature collector |
| S2 | TST1B | Temperature store 1 base |
| S3 | | Optional sensor for measurement purposes or options |
| S4 | TST2B | Temperature store 2 base |
| S5 | | Optional sensor for measurement purposes or options |
| VFS | | |
| RPS | | |
| V40 | | |

| Relay | Description |
|---|---|
| R1 | Solar pump store 1 |
| R2 | Solar pump store 2 |
| R3 | optional: |
| R4 | Thermal disinfection |
| | Parallel relay |
| | Heat dump |

| Adjustment channels | | | | | | |
|---|---|---|---|---|---|---|
| Channel | Sub channel 1 | Sub channel 2 | Factory setting | Change to | Description | Page |
| ARR | | | 1 | 6 | System | 78 |
| LOAD1 > | | | | | Loading 1 | |
| | DT1O | | 6 K | | Switch-on temperature difference 1 | 78 |
| | DT1F | | 4 K | | Switch-off temperature difference 1 | 78 |
| | DT1S | | 10 K | | Set temperature difference 1 | 78 |
| | RIS1 | | 2 K | | Rise 1 | 78 |
| | S1MAX | | 60 °C | | Store maximum limitation 1 | 78 |
| | SMXS1 | | 2 | | Sensor store max 1 | 79 |
| LOAD2 > | | | | | Loading 2 | |
| | DT2O | | 6 K | | Switch-on temperature difference 2 | 78 |
| | DT2F | | 4 K | | Switch-off temperature difference 2 | 78 |
| | DT2S | | 10 K | | Set temperature difference 2 | 78 |

| Adjustment channels | | | | | | |
|---|---|---|---|---|---|---|
| Channel | Sub channel 1 | Sub channel 2 | Factory setting | Change to | Description | Page |
| | RIS2 | | 2 K | | Rise 2 | 78 |
| | S2MAX | | 60 °C | | Store maximum limitation 2 | 78 |
| | SMXS2 | | 4 | | Sensor store max 2 | 79 |
| | LST2 | | ON | | Loading store 2 | 79 |
| COL > | | | | | Collector | |
| | CEM | | 130 °C | | Collector emergency temperature | 80 |
| | OCCO** | | OFF | | Option collector cooling | 80 |
| | | CMAX | 110 °C | | Maximum collector temperature | 80 |
| | OCMI | | OFF | | Option collector minimum limitation | 80 |
| | | CMIN | 10 °C | | Minimum collector temperature | 80 |
| | OTCO | | OFF | | Option tube collector function | 81 |
| | | TCST | 07:00 | | Tube collector starting time | 81 |
| | | TCEN | 19:00 | | Tube collector ending time | 81 |
| | | TCRU | 30 s | | Tube collector runtime | 81 |
| | | TCIN | 30 min | | Tube collector standstill interval | 81 |
| | OCFR | | OFF | | Option collector frost protection | 81 |
| | | CFR O | 4 °C | | Antifreeze temperature collector on | 81 |
| | | CFR F | 5 °C | | Antifreeze temperature collector off | 81 |
| | | FRPST | 1 | | Antifreeze store selection | 81 |
| LLOGI > | | | | | Loading logic | |
| | PRIO | | | | Priority logic | 82 |
| | | PRIO | 1 | | Priority logic | 82 |
| | | OSTS | OFF | | Store set option | 82 |
| | | TST1 | 45 °C | | Set store temperature store 1 | 82 |
| | | TST2 | 45 °C | | Set store temperature store 2 | 82 |
| | | OSE | OFF | | Spread function option | 83 |
| | | DTSE | 40 | | Spread difference | 83 |
| | tLB | | 2 min | | Loading break time | 82 |
| | tRUN | | 15 min | | Circulation runtime | 82 |
| | PSPEE | | OFF | | Pause speed option | 83 |
| | PDELA | | OFF | | Pump delay option | 83 |
| | OOVRU* | | OFF | | Overrun option | 84 |
| COOL > | | | | | Cooling functions | |
| | OSYC** | | OFF | | System cooling | 85 |
| | OSTC | | OFF | | Store cooling | 85 |
| | OHDP** | | OFF | | Heat dump | 85 |
| PUMP > | | | | | Pump speed | |
| | PUMP1 | | OnOF | | Speed variant pump 1 | 79 |
| | PUMP2 | | OnOF | | Speed variant pump 2 | 79 |
| | PUMP3 | | OnOF | | Speed variant pump 3 | 79 |
| MAN > | | | | | Manual mode | |
| | MAN1 | | Auto | | Manual mode 1 | 88 |
| | MAN2 | | Auto | | Manual mode 2 | 88 |
| | MAN3 | | Auto | | Manual mode 3 | 88 |
| | MAN4 | | Auto | | Manual mode 4 | 88 |
| BLPR > | | | OFF | | Blocking protection | 88 |
| OTDIS > | | | OFF | | Thermal disinfection option | 88 |
| OPARR > | | | OFF | | Parallel relay option | 89 |
| OHQM*** > | | | OFF | | Heat quantity measurement option | 90 |
| GFDS > | | | OFF | | Registration Grundfos sensors | 90 |
| PRS* > | | | OFF | | Pressure monitoring option | 92 |
| DATE> | | | | | Enter date | 92 |
| LANG > | | | En | | Language | 93 |
| UNIT > | | | °C | | Unit | 93 |
| OSDC > | | | | | SD card option | 93 |
| CODE | | | 0000 | | User code | 96 |
| RESET | | | OFF | | Factory setting | |

* This channel is only available if the Grundfos sensors have been registered in the **GFDS** channel.

** are blocked against each other

*** For heat quantity measurement see the information on p. 90.