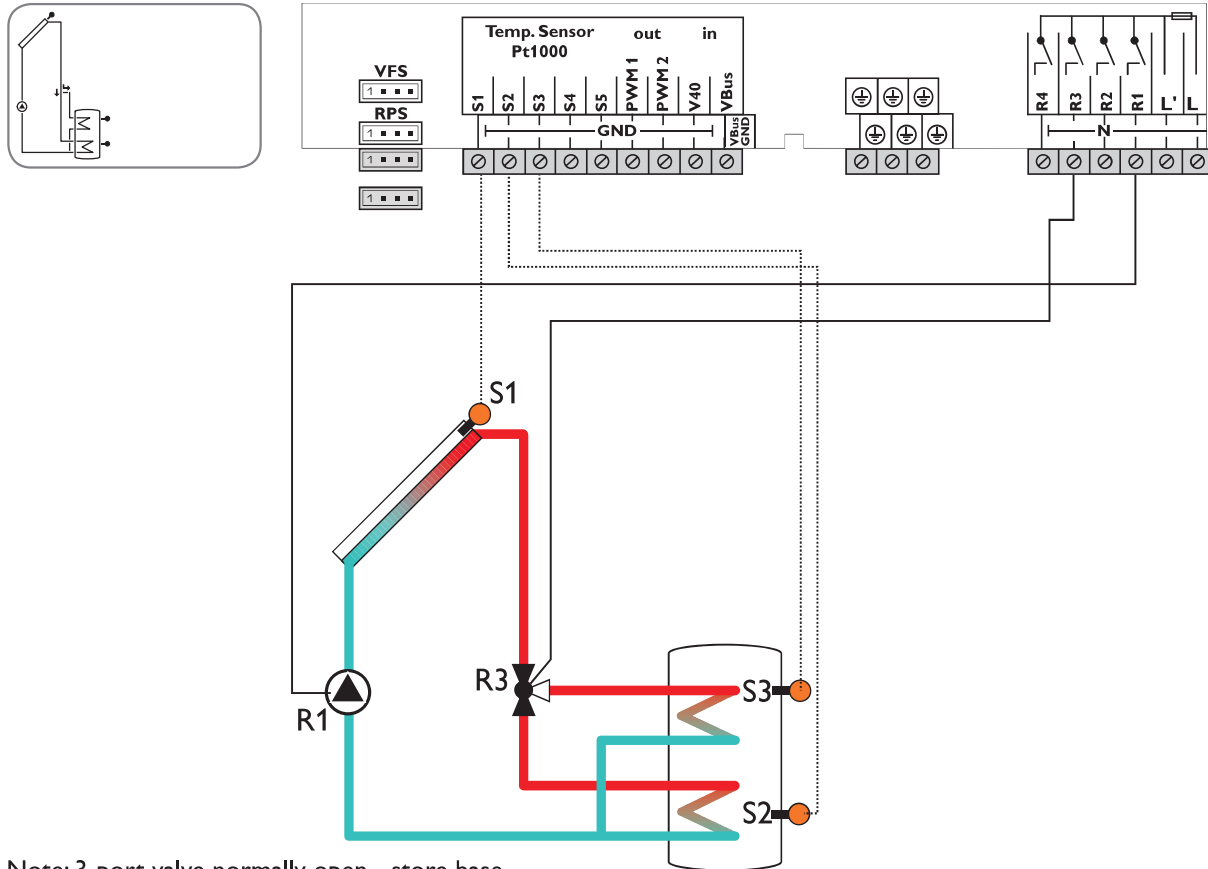


System 4

Solar system with 1 store and 3-port valve for store loading in layers

The controller compares the temperature at sensor S1 to the temperatures at sensors S2 and S3. If the measured temperature differences are higher than the adjusted switch-on temperature differences, the pump (R1) will be activated and

the corresponding store zone will be loaded up to the adjusted maximum temperature via the valve (R3). The priority logic effects prior loading of the upper zone of the store.



Note: 3-port valve normally open - store base

Sensor/Terminal	Designation	Description
S1	TCOL	Temperature collector
S2	TSTB	Temperature store base
S3	TSTT	Temperature store top
S4		Optional sensor for measurement purposes or options
S5		
VFS		
RPS		
V40		

Relay	Description
R1	Solar pump
R2/R4	optional: Thermal disinfection Parallel relay Heat dump
R3	3-port valve store top/base

Adjustment channels						
Channel	Sub channel 1	Sub channel 2	Factory setting	Change to	Description	Page
ARR			1	4	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
	RIS2		2 K		Rise 2	78

Adjustment channels						
Channel	Sub channel 1	Sub channel 2	Factory setting	Change to	Description	Page
	S2MAX		60		Store maximum limitation 2	78
	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
LLOGI >					Loading logic	
	PRIO				Priority logic	82
		PRIO	2		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
	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 >			OFF		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.