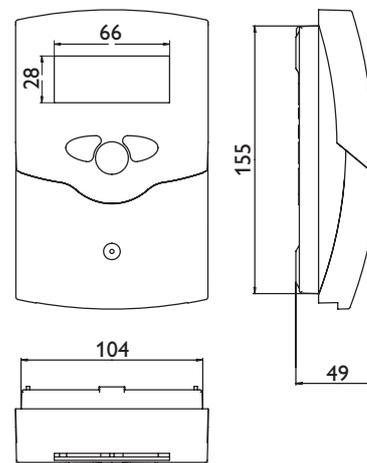# DeltaSol® BS/4 – Quick facts

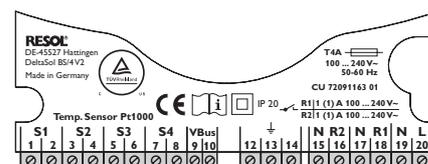Differential temperature controller for solar and heating systems

Technical data

66
28
155
104
49

Electrical connection

Inputs: 4 Pt1000 temperature sensors

Outputs: 2 semiconductor relays

Switching capacity:
1 (1) A 240 V~ (semiconductor relay)

Total switching capacity: 2 A 240 V~

Power supply: 100 … 240 V~ (50 … 60 Hz)

Supply connection: type Y attachment

Power consumption: < 1 W (standby)

Mode of operation: type 1.C.Y action

Rated impulse voltage: 2.5 kV

Data interface: RESOL VBus®

VBus® current supply: 35 mA

Functions: functionality control, operating hours counter, evacuated tube collector function, energy metering, drainback function including booster function, heat dissipation function and pump speed control

Housing: plastic, PC-ABS and PMMA

Mounting: wall mounting, mounting into patch panels is possible

Indication/Display: System-Monitoring-Display for visualization of systems, 16-segment and 7-segment display, 8 symbols for indication of system status and operating control lamp

Operation: 3 push buttons at the front

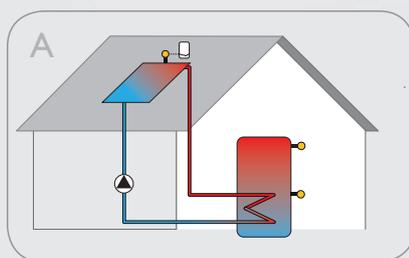**Ingress protection:** IP 20/EN 60529

Protection class: II

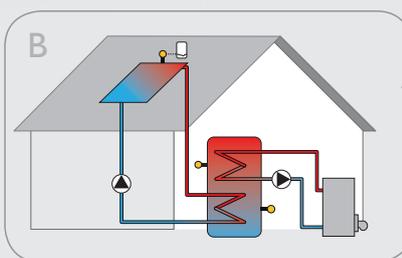**Ambient temperature:** 0 … 40 °C/32 … 104 °F

Pollution degree: 2

Dimensions: 172 × 110 × 49 mm/6.77" × 4.33" × 1.92"
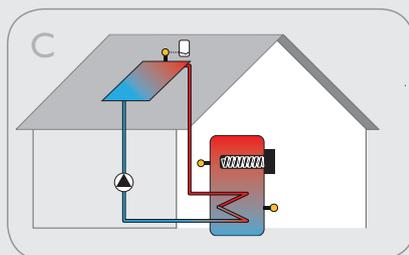
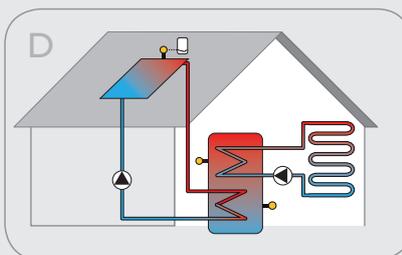## Possible systems

A

3 sensors, solar collector & solar tank
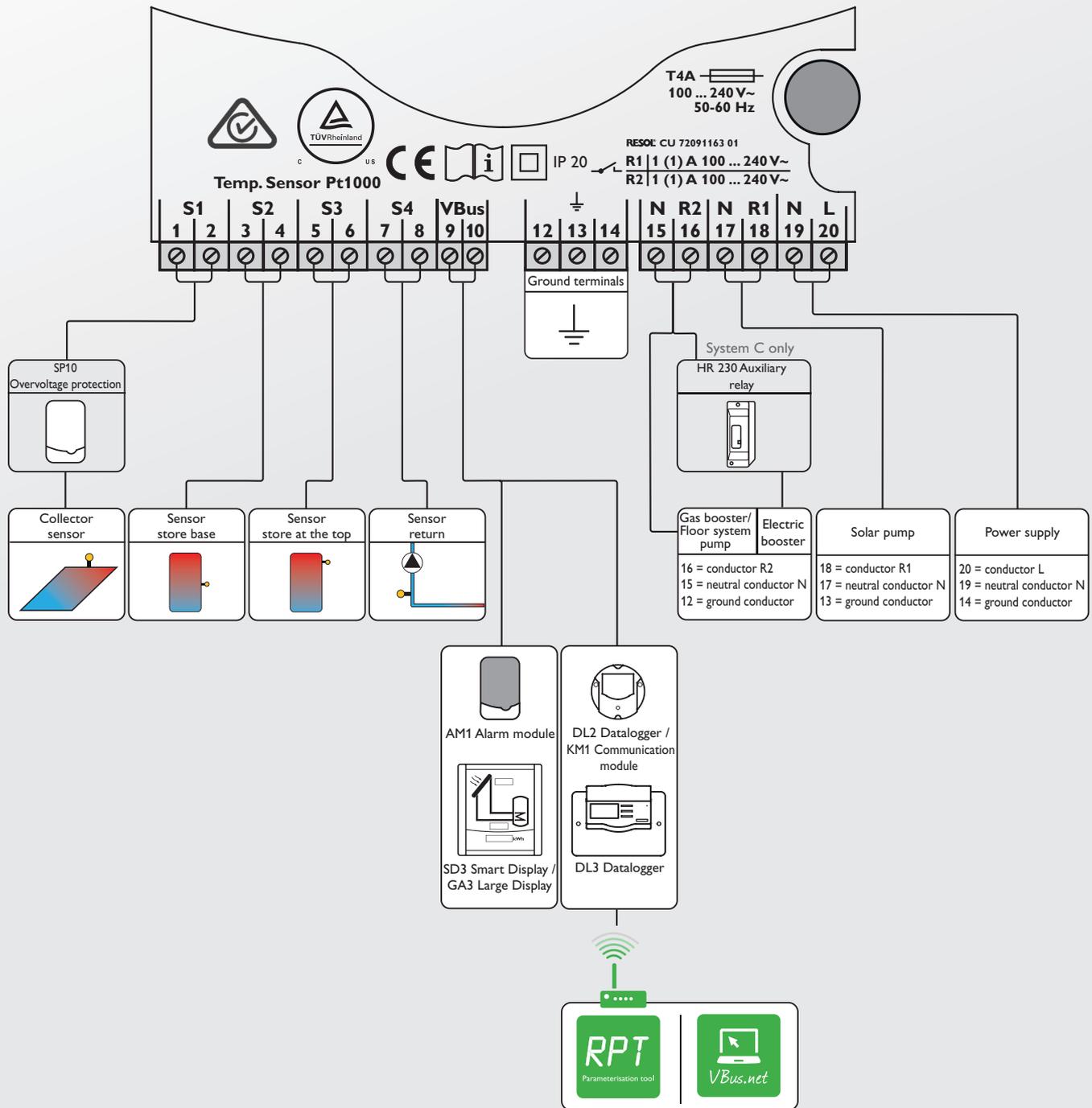

B

Solar collector & solar tank, gas booster

C

Solar collector & solar tank, electric booster (incl. auxiliary relay)

D

Solar collector & solar tank, hydronic floor system

Temp. Sensor Pt1000

CE

IP 20

T4A
100 ... 240 V~
50-60 Hz

RESOL CU 72091163 01
R1 | 1 (1) A 100 ... 240 V~
R2 | 1 (1) A 100 ... 240 V~

S1		S2		S3		S4		VBus						N	R2	N	R1	N	L
1	2	3	4	5	6	7	8	9	10	12	13	14	15	16	17	18	19	20

Ground terminals

SP10
Overvoltage protection

System C only

HR 230 Auxiliary relay

Collector sensor

Sensor store base

Sensor store at the top

Sensor return

Gas booster/ Floor system pump

16 = conductor R2
15 = neutral conductor N
12 = ground conductor

Electric booster

Solar pump

18 = conductor R1
17 = neutral conductor N
13 = ground conductor

Power supply

20 = conductor L
19 = neutral conductor N
14 = ground conductor

AM1 Alarm module

SD3 Smart Display / GA3 Large Display

DL2 Datalogger / KM1 Communication module

DL3 Datalogger

RPT
Parameterisation tool

VBus.net

RESOL GA3
Large Display module with 3 displays for collector and tank temperatures as well as for heat quantity, incl. power supply

RESOL AM1
Alarm module for signaling system failures

RESOL SD3 Smart Display
Display module for the living area with 3 displays for collector and tank temperature as well as for heat quantity

RESOL SP10
Sensor overvoltage protection

RESOL DL2 Datalogger
Datalogger incl. RESOL Service CD, SD card and LAN cable, power supply adapter and VBus® cable pre-connected

RESOL HR230
Auxiliary relay

RESOL DL3 Datalogger
Datalogger incl. RESOL Service CD, SD card, power supply adapter, LAN and VBus® cable

RESOL Moisture-proof housing
Moisture-proof housing for controller installation outdoors or in highly humid locations (without controller)