

# Digital Solar Thermal Controller

## C-CB1

### Functionality Hardware:

#### Mechanical Data:

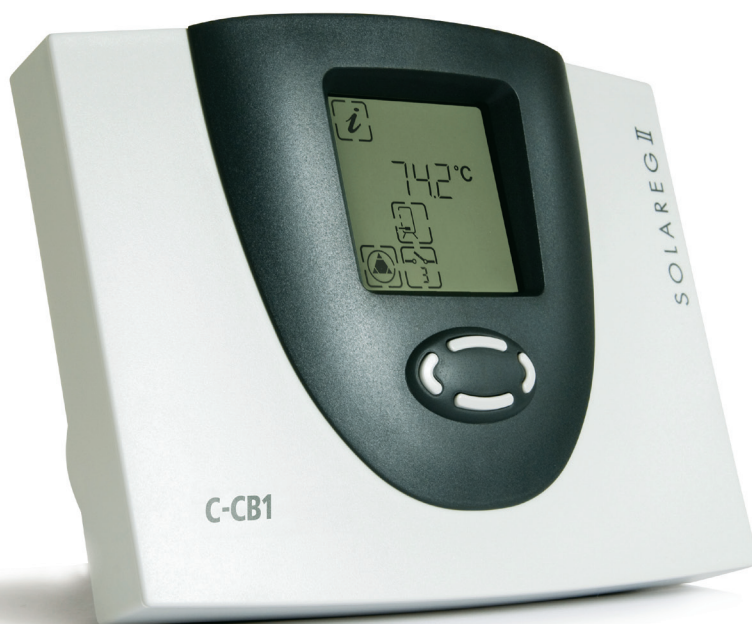
- Variable design housing approx. 175 x 135 x 50mm
- LCD Display with pictograms, with Backlight
- Centralized operation with 4 pressure keys

#### Outputs:

- 1 Electronic output 230V/AC 1A, Cos. = 0,9; with zero crossing switch, fuse protection 2A/MT - Pump speed control
- Connection: Connectors grid 5,0mm

#### Inputs:

- 3 Temperature sensor inputs for PT1000 sensors
- Connection: Connectors grid 5,0mm
- Functionality Software:



### SOLAREG II Specifications C-CB1

Electronic temperature differential controller (sensing control), 3 inputs, 1 output, independently mounted, continuous operation.

Housing	
Material	100% recyclable ABS-housing for wall installation
Measures L x W x D in mm. weight	175 x 134 x 56 ca. 360 g
Protection class	IP20 according to DIN 40050, IEC 529, VDE 0470, EN 60529
Electrical values	
Operating voltage	AC 230 Volt, 50 Hz, -10... +15%
Interference grade	N according to VDE 0875
Max. conductor cross-section 230V-connections	2,5 mm <sup>2</sup> fine-strand/single-wire
Temperature sensor / temperature range	PTF6 - 25°C - 200°C PT1000, 1,000 k $\Omega$ at 0°C
Output - 1 For circulation pump (speed control)	230V/AC 1A, Cos $\varphi$ = 0,9;
Testing voltage	4 kV 1 min according to VDE 0631
Switching voltage	230V~ /
Capability per one switch output	1A / ca. 230VA for cos $\varphi$ = 0,7-1,0
Total capability of all outputs	2A / ca. 460VA maximal
Fuse protection	fine-wire fuse 5 x 20mm, 2A/T (2 amperes, slow)
Others	
Operating temperature	0 ... + 50°C
Storing temperature	-10 ... + 65°C

### System Layout Schematic 1 Collector, 1 Storage Tank

### Functionality Software:

#### Functions:

- Solar circuit control by temperature difference controller
- Collector protection
- System protection
- Sensor monitoring
- Re-cooling function (holiday mode)

### Delivery

- 1 pcs. Controller device, sequential packing
- 1 pcs. User manual, English
- 2 pcs. PT1000 Store Sensors PVC, 2,0m
- 1 pcs. PT1000 Collector Sensor Silicon, 1,5m