

Digital Solar Thermal Controller VISION

Functionality Hardware:

Mechanical Data:

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

Outputs:

- 3 Electronic outputs 230V/AC 1A, Cos. = 0,9; with zero crossing switch, fuse protection 4A/MT
2 x outputs for pump speed control
1 x output for auxilliary heating
- Connection: Connectors grid 5,0mm

Inputs:

- 6 Temperature sensor inputs for PT1000 sensors
- 1 Digital Input for potential free, external contact
- Connection: Connectors Grid 3,81mm (optional flow meter)



SOLAREG II Specifications VISION

Electronic temperature differential controller (sensing control), 7 inputs, 3 outputs, 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 ² fine-strand/single-wire
Temperature sensor / temperature range	PTF6 - 25°C - 200°C PT1000, 1,000 k Ω at 0°C
Output - 1 For circulation pump (speed control)	230V/AC 1A, Cos ϕ = 0,9;
Output - 2 For circulation pump (speed control)	230V/AC 1A, Cos ϕ = 0,9;
Output - 3 For auxilliary heating	230V/AC 1A, Cos ϕ = 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 ϕ = 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	
Recommended flow transmitter	PVM 1,5/90 1500l/h, Tmax >=90°C, 10/ impuls
Operating temperature	0 ... + 50°C
Storing temperature	-10 ... + 65°C

System Layout Schematic

- 1 Collector, 1 Storage Tank**
- 2 Collector, 1 Storage Tank**
- 1 Collector, 2 Storage Tank**

Functions:

- Multiple controller configurations, 1-2 collector arrays, 1-2 storage tanks
- Reheat function (auxilliary heating)
- Flexible add. multi function controller, included
- Collector protection
- System protection
- Re-cooling function (holiday mode)
- Energy yield measurement (with optional flow meter)
- Sensor monitoring
- Flow monitoring

Delivery

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