Solar controller with speed RPM control Lago SG 2, Lago SG 3

Product brochure · GB
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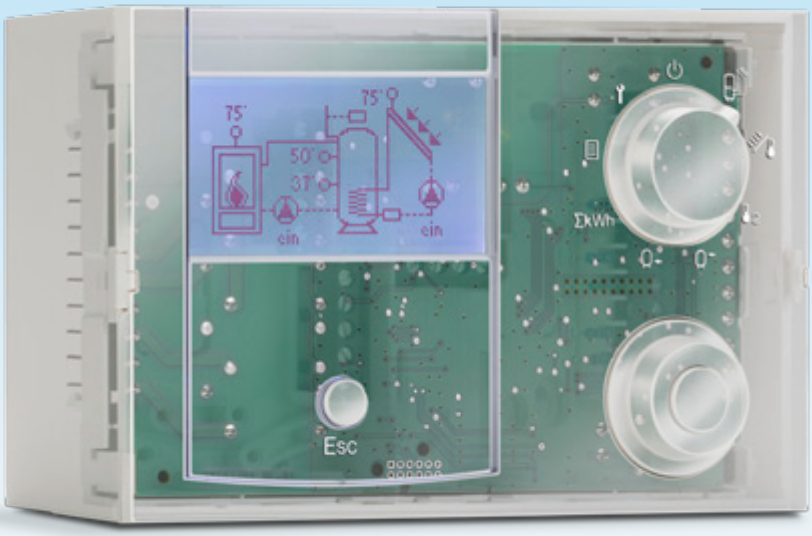


- For controlling pumps and switch-over valves on pressure solar systems or drain-back systems
- Actuation of speed-controlled pumps via PWM or 0–10 V
- Easy to program and operate via selector switch and rotary knob
- Convenient system installation using installation assistant by selecting the number of connected sensors and actuators
- Automatic detection of connected sensors
- Query of temperature curves and solar heat production
- Collector and pump block protection function
- Easy wall mounting as base can be removed

Solar controller with removable base for easy wall mounting.

The selector switch and rotary knob for simple query of temperatures and yield or setting system parameters.

Application

The solar controllers Lago SG 2 and Lago SG 3 are suitable for use with flat and tubular collectors as well as solid fuel boilers and layer storage systems. The connected sensors measure the temperature differences and control pumps and switch-over valves on pressure solar systems or drain-back systems.

The installation assistant allows the heating system to be easily installed by selecting the number of connected sensors, pumps and switch-over valves. Alternatively, direct selection of one of the preinstalled system setups is also possible.

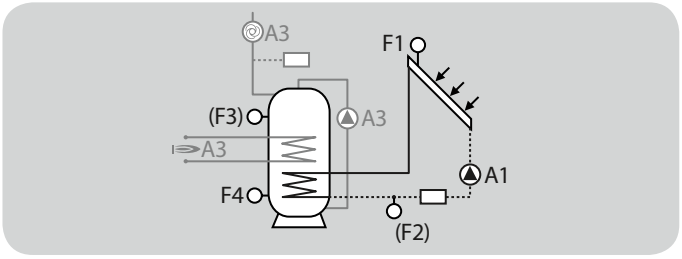
The temperatures at the sensors as well as, for example, the operating status of the pumps can be queried directly via these system setups. Additionally, temperature curves and heat production volumes can be graphically illustrated in a diagram.

The function of the different pumps or switch-over valves can be checked by means of a relay test.

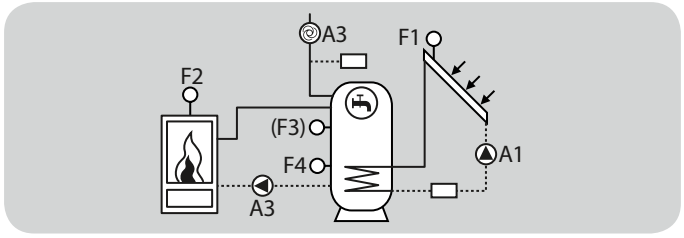
Lago SG 2 is equipped with two and Lago SG 3 with three relay outputs for actuating high-efficiency pumps. One output respectively on the Lago SG 2 or Lago SG 3 can be assigned to one of the special functions reheating, circulation pump or return temperature increase.

Typical applications
Lago SG 2, SG 3

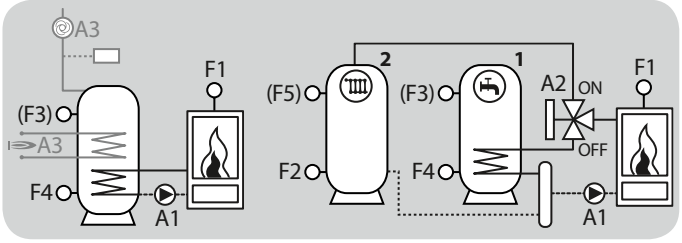
System 1 (1 collector, 1 buffer storage tank)



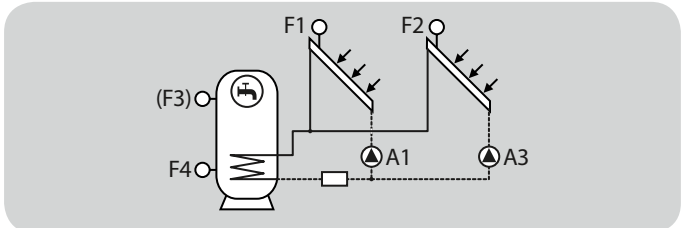
System 3 (1 collector, 1 storage tank, 1 solid fuel boiler)



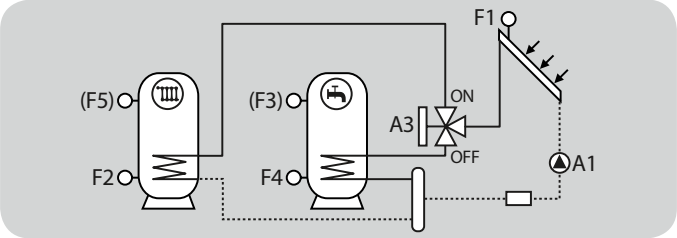
System 2 (1 solid fuel boiler, 1 storage tank or
1 solid fuel boiler, 2 storage tanks with switch-over valve)



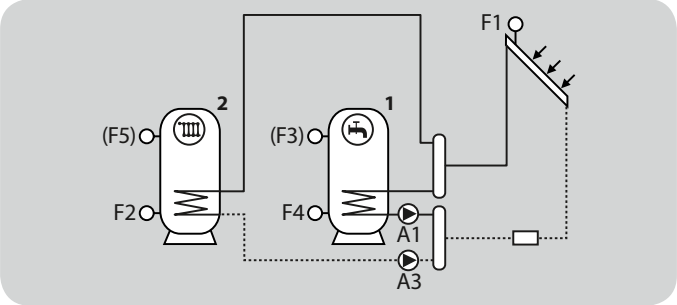
System 4 (2 collectors, 1 storage tank, 2 collector pumps)



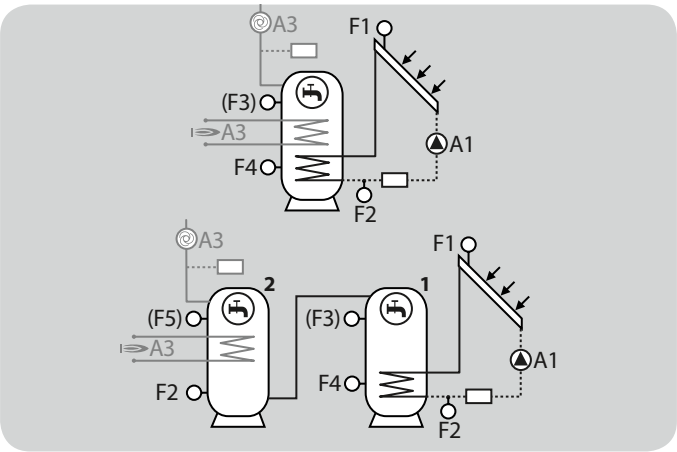
System 5 (1 collector, 2 storage tanks, 1 switch-over valve)



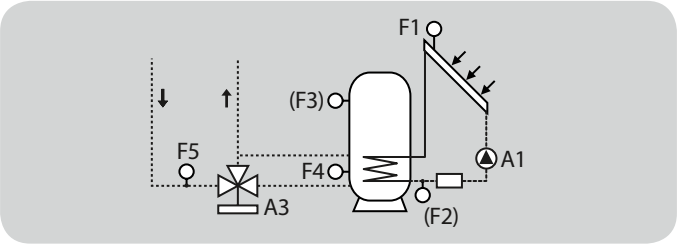
System 6 (1 collector, 2 storage tanks, 2 charge pumps)



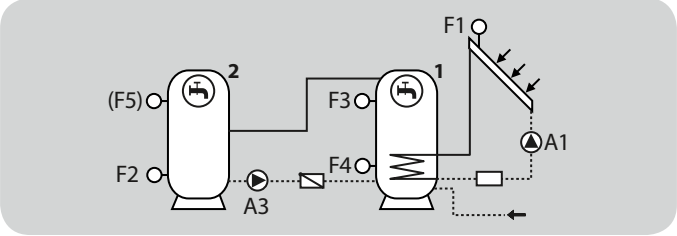
System 7 (1 collector, 1 storage tank or 2 storage tanks)



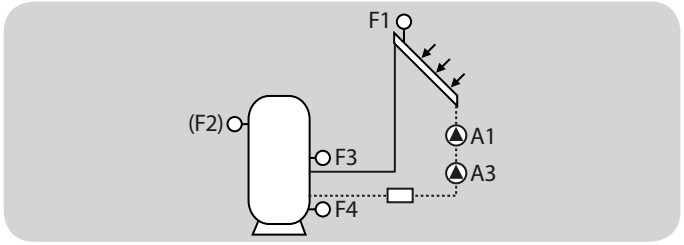
System 8 (1 collector, 1 storage tank, return temperature increase)



System 9 (1 collector, 2 storage tanks, refeeding pump)

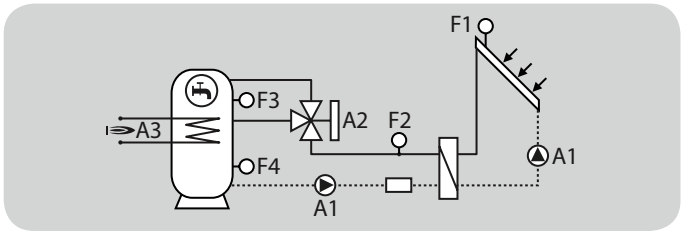


System 10 (1 collector, 1 storage tank, drain-back system)

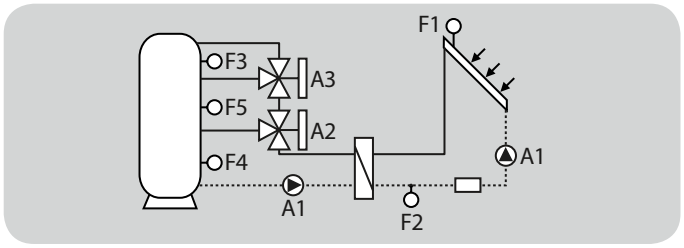


Lago SG 3

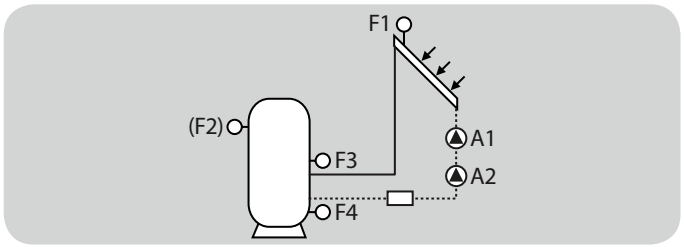
System 11 (1 collector, 1 storage tank, 2 feeding areas)



System 12 (1 collector, 1 storage tank, 3 feeding areas)



System 13 (1 collector, 1 storage tank, drain-back system)



Technical Specifications

Mains voltage according to DIN IEC 60 038: ~230 V, +10/-15%

Power consumption: max. 5 W

Switching capacity of the relays: ~250 V, AC 2 (2) A

Max. current via terminal L1': 6.3 A

Protection class according to EN 60529: IP 40

Protection class according to EN 60730-1: I

Overvoltage category III (EN 60730-1)

Contamination class 2 (EN 60730-1)

Reserve power of clock: >10 h.

Permissible ambient temperature during operation:
0 to 50 °C

Permissible ambient temperature during storage: -25 to +60 °C

Permissible relative humidity, not condensing: 95 % RH

Sensor resistances F1 to F5:
PT1000, 1 kΩ ±0,2 % at 0 °C.

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