

Controller for Solar Thermal Systems



- Stylish, easy-to-install housing
- Backlit display with pictograms
- Simple 3-button operation
- Intuitive menu mode facilitating set-up
- Frost protection / cooling function
- Safety switch off
- Sensors included

Controller for Solar Thermal Systems

Electronic differential temperature control for solar thermal systems

When the temperature of the solar collector exceeds that of the DHW cylinder by a value set in the Controller, the Controller activates the circulation pump to allow the solar circuit to heat the DHW cylinder (constant differential temperature regulation)

A conventional oil/gas boiler provides backup heating to the DHW cylinder. Solar systems make an ideal partner to conventional heating systems as they are easy to integrate and have a life expectancy of over 25 years. The Drayton Solar Controller can be used as a temperature differential control in solar, heating and air-conditioning systems to activate switching processes depending on thermal, hydraulic and environmental conditions.

The Controller monitors the temperature differences of the sensors and compares them to a value set in the Controller. The Controller activates 2 relay outputs if the temperature difference exceeds the set value and these outputs can be used to control circulation pumps or valves. There are inputs for up to four PT1000 sensors.

The Solar Controller also includes an electronic limiter for the temperature in the DHW cylinder and a safety cut-out for the collector.

As well as being easy to install the Drayton SHR 521 20 Solar Heating Controller is easy to use thanks to the intuitive menu mode and multifunction display. Flashing symbols for sensors, pumps and valves facilitate the selection and control of temperatures, temperature differentials and active outputs. In operation the backlit display gives visual feedback of functionality of the complete solar thermal system.

Technical Data

Type	SHR 521 20
Article No.	0521 20 140 000
Housing	Plastic, PC-ABS and PMMA
Protection type	IP 20/DIN 40050
Ambient temperature	0 ... 40°C
Size	172 x 110 x 46 mm
Installation	wall mounting, panel mounting is possible
Display	LCD, multi-functional combined display with 8 pictograms, two 2-digit text fields and two 4-digit 7-segment displays as well as one 2-coloured LED
Operation	by three pushbuttons on the front of the housing
Inputs	3 temperature sensors Pt 1000
Output	2 standard relays
Switching current	max. 4 A
Power supply	210...250 V a.c., 50/60 Hz
Power consumption	~ 2 VA

Sensors

Type	FKP 6	FRP 6
Article No.	0521 91 020 100	0521 91 020 200
Description	1.5 m long, Silicon, Ø 6 mm, brass tube 50mm	2.5 m long, PVC, Ø 6 mm, brass tube 50mm

Features

- Stylish compact housing
- Easy to install
- Backlit display with pictograms
- User-friendly operation
- Intuitive menu mode
- Sensors included

Functions

- Standard solar controller with adjustable values
- Minimum-maximum temperature limits
- Switch-ON and switch-OFF temperature difference
- Frost protection / cooling function
- Security switch-off
- Function control according to BAW-directions

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Controls

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