



SUN EARTH

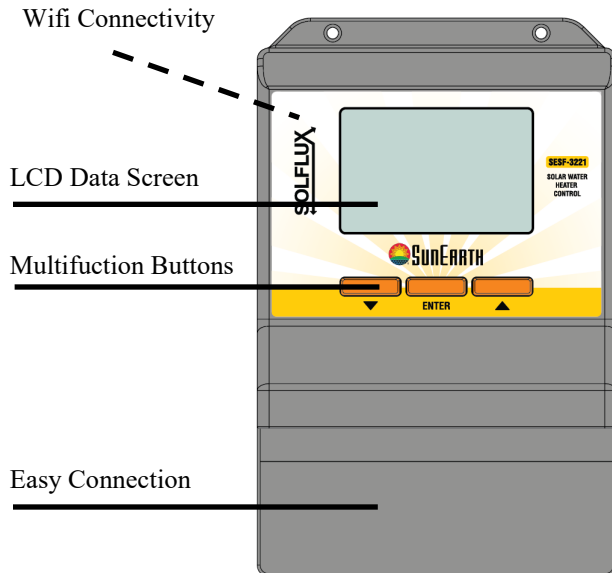
THE SOLFLUX

SOLAR CONTROLLER SPECIFICATION SHEET

Applications



Solar Water Heating



Technical Specification:

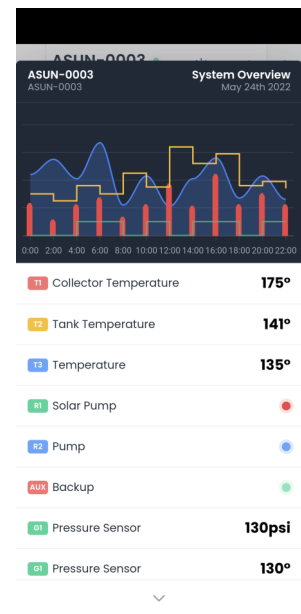
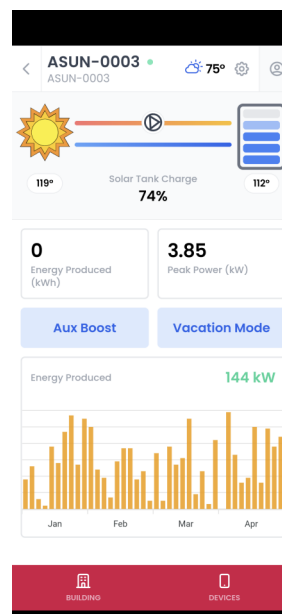
Model: SESF-3221

System Voltage:	115 V AC OR 230 V AC, 60HZ
Standby:	≤ 0.8 W
Temperature Input:	3 x temperature (Pt1000)
Additional Input:	1 x Grundfos Direct Sensors™ (temperature / flow rate), 1 x Grundfos Direct Sensors™ (temperature / pressure)
Number of outputs:	3
Output:	2 x Relay (R1, R2), max. 250 W (230 V) or 0-10VDC/PWM control signal for pump speed (PWM R1, PWM R2); 1 x Non powered relay output relay (R3), 20 A, 115 V AC ... 230 V AC
System Design Types:	5
Ambient temperature:	+32 °F to +132 °F
Degree of protection:	IP 22 / DIN 40050 [without front panel: IP20]
Dimensions (W x H x D):	4.76" x 7.4" x 2.6"
Weight:	5 oz
Warranty:	2 Years

Product Features:

- Compact Multipart designer casing.
- Remote Two-way System Status Communication with Web or Mobile Application.
- Insulation versions: wall mounted.
- Pulse Width Modulation and 1-10 V control signal ensure electronic RPM control.
- High level of operational safety through fault diagnosis.
- Remote Software update possible with wifi connectivity
- Screw terminals allow universal and rapid installation.
- Low power consumption thanks to universal and wide range of switched-mode power supply.
- Variable input voltage range for worldwide controller deployment.
- Includes 3 temperature sensors.

Remote Accessibility and Monitoring



Due to SunEarth's policy of continuous product improvement, specifications are subject to change without notice.



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ENGINEERING SPECIFICATIONS:

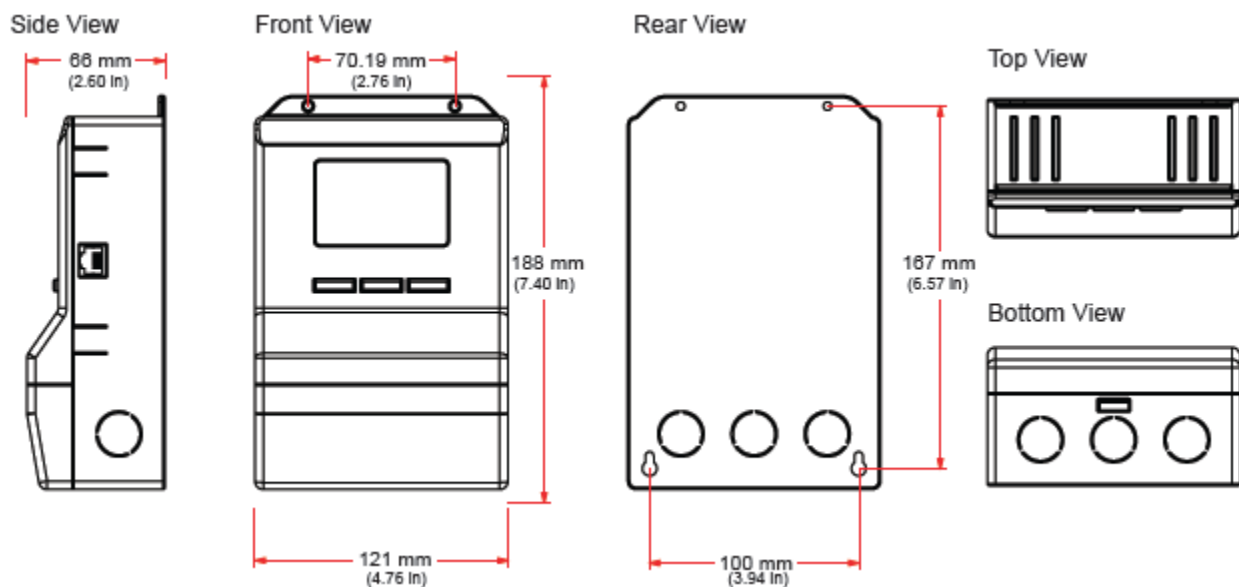
The SunEarth Solflux control has a compact designer housing allowing universal use. The SESF-3221 has extensive functionality for control of solar water heating systems and provides additional system monitoring functionality. When used in conjunction with an external pressure sensor, the “System pressure monitoring” controller function provides additional system monitoring and security. An additional controller output that can be individually customized for additional controller functions is also provided.

The variable input voltage range allows universal use of the device worldwide. The SESF-3221 has two powered outputs, that can also be configured along side s 0-10 VDC or PWM output for controlling high efficiency pumps and a non-powered relay switched output for additional controller functions of devices up to 20amps. The equipment is rounded off by three inputs for recording temperatures.

The integrated heat energy measure system allows the acquisition of numerical information on the solar yields of the system. For more demanding requirements, this can be expanded using an external pulse encoder or an additional Grundfos Direct Sensors™. All controller data is available for Two-way communication via web or mobile application.

Five pre-programmed systems enable universal usage. The Solflux SESF-3221 also provides important monitoring and safety functions such as special error messages to quickly troubleshoot faults.

Dimensions:



Accessories:

Item:	Part Number:
Temperature Sensor:	SEPT 1000-PRB
Collector Sensor 1/2" Sweat Thermo-Well:	BX8T4550-6(9)-C-SWT
1/2" NPT Thermo-well For Tank Sensor:	100006-2-C
Over Voltage Protection (Lightening):	TA OP1
Collector Sensor Connection Kit:	100003-1-*
Flow Sensor:	VFS 1-20 VFS 2-40 VFS 5-100 VFS 10-200 VFS 20-200
Pressure Sensor	RPS 0-10

Part Number:	Voltage:
SESF-3221.1	120VAC
SESF-3221.2	240VAC

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