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COMPLETE CONTROLLER RESUN 600X

Technical datasheet Nr 82

DESCRIPTION:





circulator pump

RESUN 600X is a complete solar controller designed for the control of the most common large solar systems up to 2 collector fields with different orientation and up to 4 stores.

It can accommodate up to 8 (9) temperature sensor inputs, 2 digital GDS sensor inputs, 1 pulse counter input and 1 solar irradiation cell input. It can control up to 5 relay outputs and 2 PWM or 0-10V outputs for speed control of high-efficiency pumps.



Its large graphic display offers a clear view of heat quantity measurements and operating graphs. Many pre-programmed functions facilitate the system commissioning. The SD memory card included allows to transfer settings, to record data and to update firmware.

• SETTINGS:

Before delivery, our technical team supplies* you the customised settings to meet the requirements of the design office and to ensure optimal use of the required solar system. A hydraulic diagram, a wiring diagram and a setting book are provided* to facilitate the commissioning and the monitoring of the installation.

• TECHNICAL SPECIFICATIONS:

Max. number of collector fields (different orientations)	2
Max. number of stores	4
Temperature sensor input in total	8 (9)
Grundfos Direct Sensor input (GDS)	2
Pulse counter input	1
Irradiation sensor input	1
Relay outputs in total	5
- whose semiconductor (whose speed control)	4 (4)
- whose potential-free	1
PWM outputs (whose convertible to 0-10V)	2 (2)
Vbus data interface	yes
SD card data interface	yes
Real-time clock	yes
Illuminated display	graphic

Housing	plastic, PC-ABS, PMM	1A
Mounting	wall mounting (or into patch	panels)
Dimensions	198 x 170 x 43 mm	
Ambient temperature	0 to 40 °C	
Ingress protection	IP 20 / IEC 60529	
Protection class	I	
Switching capacity / relay	semiconductor 1 (1) A 240V~	
Switching capacity / relay	Potential-free 2 (1) A 24	0 V~
Total switching capacity	4 A 240 V~	
Absorbed power	< 1 W in standby	
Power supply	100240 V~, 5060	Hz
Compatibility with datalogger ED2 and ED3		yes
Compatibility with standard and large display panels ye		
Compatibility with energy measurement device ves		

• MAINS SOFTWARE FUNCTIONS:

Heat quantity measurement with flowmeter	2
Heat quantity measurement with pulse counter	1
Heat quantity measurement with GDS	VFD
Function block	yes
Thermostat	yes
Additional ΔT control (ex: heat exchanger)	yes
External heat exchanger	yes
Heat exchange	yes
Solar circuit bypass	yes
Irradiation-dependent bypass	yes
Vacuum tube collector	yes
Twin pump for solar circuit	yes
Target temperature	yes
Antifreeze for solar circuit	yes
Collector minimum limitation	yes
Collector emergency shutdown	yes
Heat dump	yes

Store maximum limitation	yes
Store emergency shutdown	yes
Store set temperature	yes
Cooling functions and cooling mode	yes
Irradiation switch	yes
Backup heating suppression	yes
Priority loading	yes
Store loading in layers	yes
Thermal desinfection	yes
Solar parallel relay	yes
Free parallel relay	yes
Boiler loading	yes
DHW heating	yes
Circulation	yes
Error relay	yes
Flow rate and pressure monitoring	yes
Function control	yes

• AVAILABLE MODEL:

Reference	Designation
40030506008	Complete controller RESUN 600X