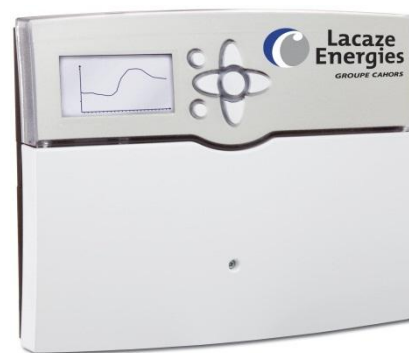


EXTENDED CONTROLLER RESUN 800X

Technical datasheet Nr 33



• DESCRIPTION:



Solar



High efficiency circulator pump

RESUN 800X is an extended solar controller designed for the control of complex large solar systems up to 2 collector fields with different orientation and up to 4 stores.

It can accommodate up to 12 (15) temperature sensor inputs, 2 digital and 2 analog GDS sensor inputs, 3 pulse counter inputs and 1 solar irradiation

cell input. It can control up to 14 relay outputs and 4 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.

**under conditions*

• TECHNICAL SPECIFICATIONS:

Max. number of collector fields (different orientations)	2
Max. number of stores	5
Temperature sensor input in total	12 (15)
Grundfos Direct Sensor input (GDS)	4
Pulse counter input	3
Irradiation sensor input	1
Relay outputs in total	14
- whose semiconductor (whose speed control)	13 (13)
- whose potential-free	1
PWM outputs (whose convertible to 0-10V)	4 (4)
Vbus data interface	yes
SD card data interface	yes
Real-time clock	yes
Illuminated display	graphic

Housing	plastic, PC-ABS, PMMA
Mounting	wall mounting (or into patch panels)
Dimensions	254 x 205 x 47 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 4 (1) A 240 V~
Total switching capacity	6.3 A 240 V~
Absorbed power	< 1 W in standby
Power supply	100...240 V~, 50...60 Hz
Compatibility with datalogger ED2 and ED3	yes
Compatibility with standard and large display panels	yes
Compatibility with energy measurement device	yes

• MAINS SOFTWARE FUNCTIONS:

Heat quantity measurement with flowmeter	7
Heat quantity measurement with pulse counter	3
Heat quantity measurement with GDS	VFS/D
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 disinfection	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
40030506888	Extended controller RESUN 800X