

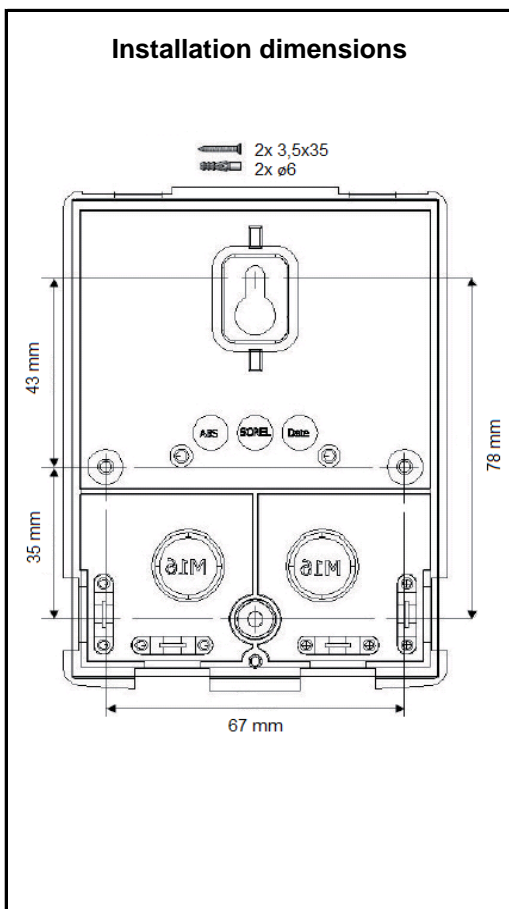
STDC E Solar Controller



Application	control of solar and heating systems
Purpose	The Controller controls 2 outputs (1 mech. relay and 1 optional either 0-1V or PWM) and features 3 inputs for Pt 1000 temper. sensors
Code	13 164

Electric data	
Power voltage	230 V ~ ±10%
Power frequency	50 - 60 Hz
Power input	cca 1,5 VA
Internal fuse	2 A/250 V, slow-blow
IP rating	IP40
Protection class	II
Overvoltage category	II by EN 60664-1
Pollution degree	II by IEC 60664-1

Inputs and outputs	
Mechanical relay	460 VA pro AC1/460 W pro AC3
0-10 V	load 10 kΩ, tolerance 10%
PWM	voltage 10 V, frequency 1 kHz
Pt 1000	temperature range -40 to 300 °C



Number of inputs and outputs	
Mechanical relay	1 x (R1)
0-10 V or PWM	1 x (V1)
Pt 1000	3 x (S1 to S3)

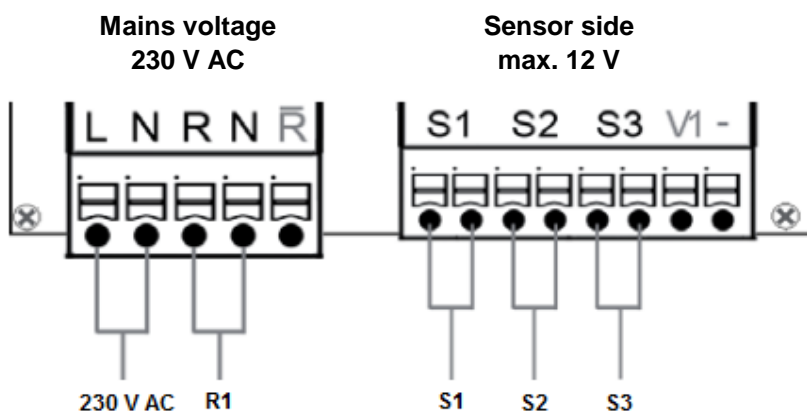
Permissible cable lengths for sensors and outputs	
Mechanical relay	< 10 m
0-10 V/PWM	< 3 m
Pt 1000 (outdoor sens.)	< 30 m
Pt 1000 (other sensors)	< 10 m

Permissible ambient conditions	
Ambient temper. - operation	0 to 40 °C
Ambient temper. - stock	0 to 60 °C
Air humidity - operation	max. 85 % at 25 °C
Air humidity - stock	no condensation permitted

Other data	
Housing material	ABS (two-part)
Installation	wall mount
Overall dimensions	115 x 86 x 45 mm
Display	fully graphic, 128 x 64
Preset connections	9 hydraulic variants for solar and heating systems
Control	by 4 pushbuttons

STDC E Solar Controller

Terminal block wiring diagram



Terminal: Connection for:
L mains voltage - live
N mains voltage - neutral
R live
N neutral
R̄ break contact
 Protective PE lead shall be wired to PE terminal board!

Terminal: Connection for:
S1 (2x) sensor 1
S2 (2x) sensor 2
S3 (2x) sensor 3
 No sensor polarity.
V1 0-10 V or PWM
 - 0-10 V or PWM (earth)

Correlation between temperature and resistance for Pt 1000 sensors

°C	0	10	20	30	40	50	60	70	80	90	100
Ω	1000	1039	1077	1116	1155	1194	1232	1270	1308	1347	1385



Cerbos

küttesüsteemid • müük • paigaldus • hooldus