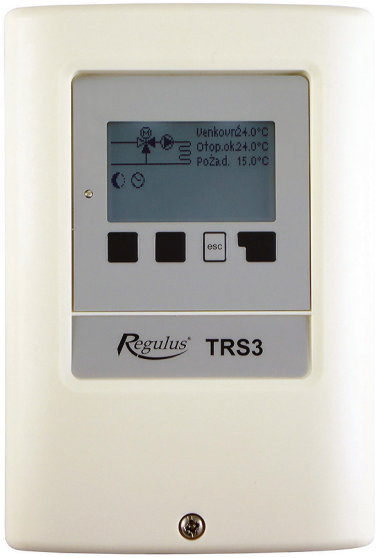
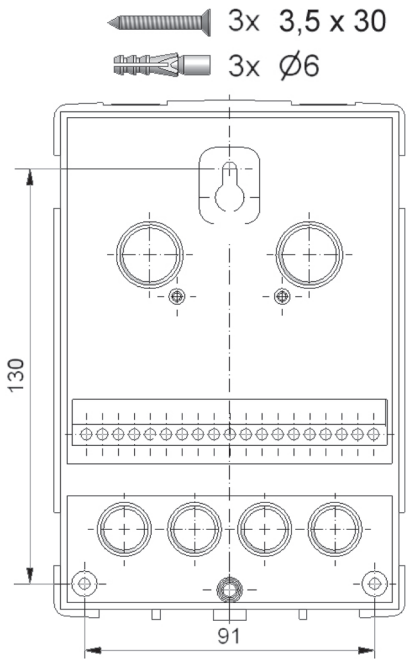
DATA SHEET

TRS3 Controller for One Heating Circuit



Instalation



Main Features	
Application	Control of 1 mixed heating circuit.
Purpose	It controls 4 outputs and 4 inputs (3 Pt1000 temperature sensors and 1 room unit).
Code	**9055**

Electric Data	
Power voltage	230 V AC
Power frequency	50–60 Hz
Power input	2 VA
Internal fuse	2 A/250 V, slow-blow
IP rating	IP40
Protection class	II

Energy efficiency data [as per EC Regulation No. 811/2013]	
Class of controller	VII
Correction factor	3.5%

Inputs and outputs	
Mechanical relay	460 VA pro AC1/185 W for AC3
Pt1000	temperature range –40 to 300 °C
LAN connection	CAN Bus

Number of inputs and outputs	
Mechanical relay	3x (R1/R2/R3)
0–10 V or PWM	1x (V1)
Pt1000	3x (S1 to S3)
Room control unit	1x (S4)

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	163 x 110 x 52 mm
Display	fully graphic, 128 x 64
Control manner	4 keys

Accessories	
1x Pt1000 contact temperature sensor for pipe, TR/P4 up to 95 °C	included in supply
1x Pt1000 outdoor temperature sensor, type TA52	included in supply
Caleon Room Unit	not included in supply, code 17150

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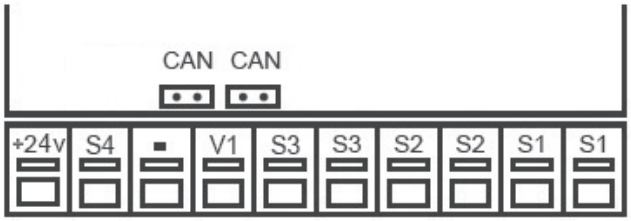
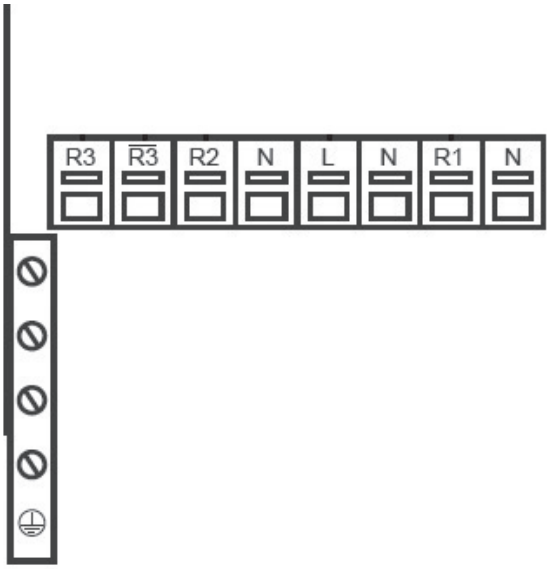
Terminal block wiring diagram

EXTRA LOW VOLTAGE – max. 12 V AC/DC



MAINS VOLTAGE – 230 V AC, 50–60 Hz



Controller board connection:
CAN – CAN Bus
Terminal board connection:
+24V – 24 V DC voltage output for external devices (for example Caleon room unit), max. load 24 V / 2 W
S4 – room unit
– – ground
V1 – 0–10 V output to boiler
S3 – room temperature sensor (ground)
S3 – room temperature sensor
S2 – sensor 2 heating water
S2 – sensor 2 heating water
S1 – sensor 1 outdoor
S1 – sensor 1 outdoor

Terminal board connection:
R3 – mixing valve (closes)
R3 – free
R2 – mixing valve (opens)
N – mixing valve (neutral)
L – mains voltage (live)
N – mains voltage (neutral)
R1 – pump (live)
N – pump (neutral)
Protective PE lead shall be wired to PE terminal board.

Correlation between temperature and resistance for Pt1000 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

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