Technische Alternative RT GmbH

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LST2x2D-DL

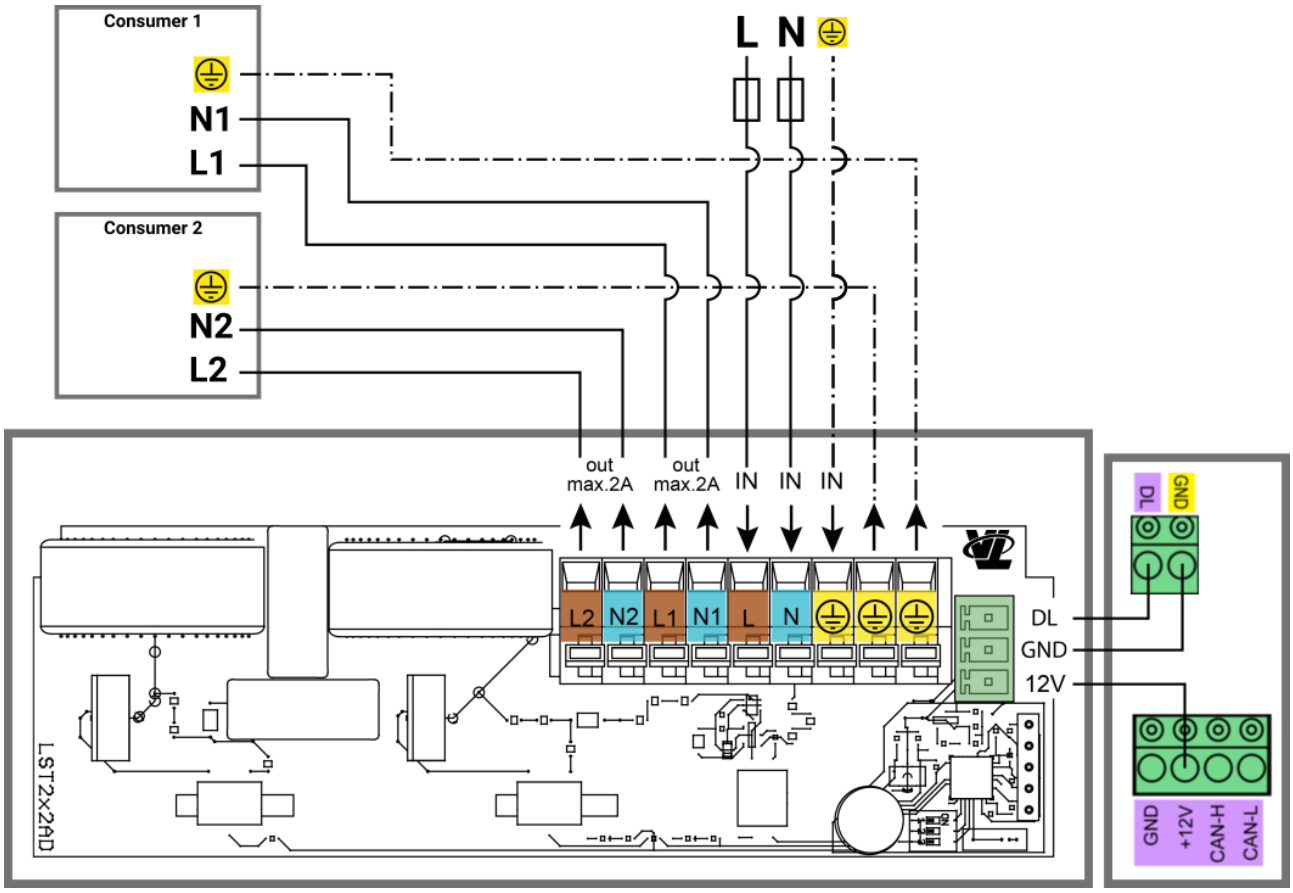
CE **EN Vers. 1.00**

Dimmable power controller (2x 400 W)

The dimmable power controller **LST2x2D-DL** switches power via two separate channels, up to 400W (2x max. 2A at 230V AC). Power is modulated using phase angle control.

Terminal diagram

The DL-Bus (**DL** and **GND**) as well as a 12V power supply (e.g. CAN bus) need to be connected.



Mind the usage of suitable wire sizes and temperature resistance according to applicable norms.

Index

The outputs of the power controller are regulated using the indexes 1 and 2.

Index	Channel
1	Power in % of **output 1** / Digital ON/OFF for 0% or 100% power respectively
2	Power in % of **output 2** / Digital ON/OFF for 0% or 100% power respectively

Additionally, the power controller sends the status and (if applicable) the performance in % of either output to the DL-Bus. These values can be read using DL inputs with indexes 1-4.

Index	Channel
1	Output **1:** Digital OFF if power =0%, Digital ON if power >0%
2	Output **2:** Digital OFF if power =0%, Digital ON if power >0%
3	Output **1:** power in %
4	Output **2:** power in %

DL address

The power controller's address is 1 as per factory settings. Dip switches on the PCB are used to change the address. The effective address is derived from address 1 (= factory setting) plus the sum of all the values of the DIP switches set to ON.

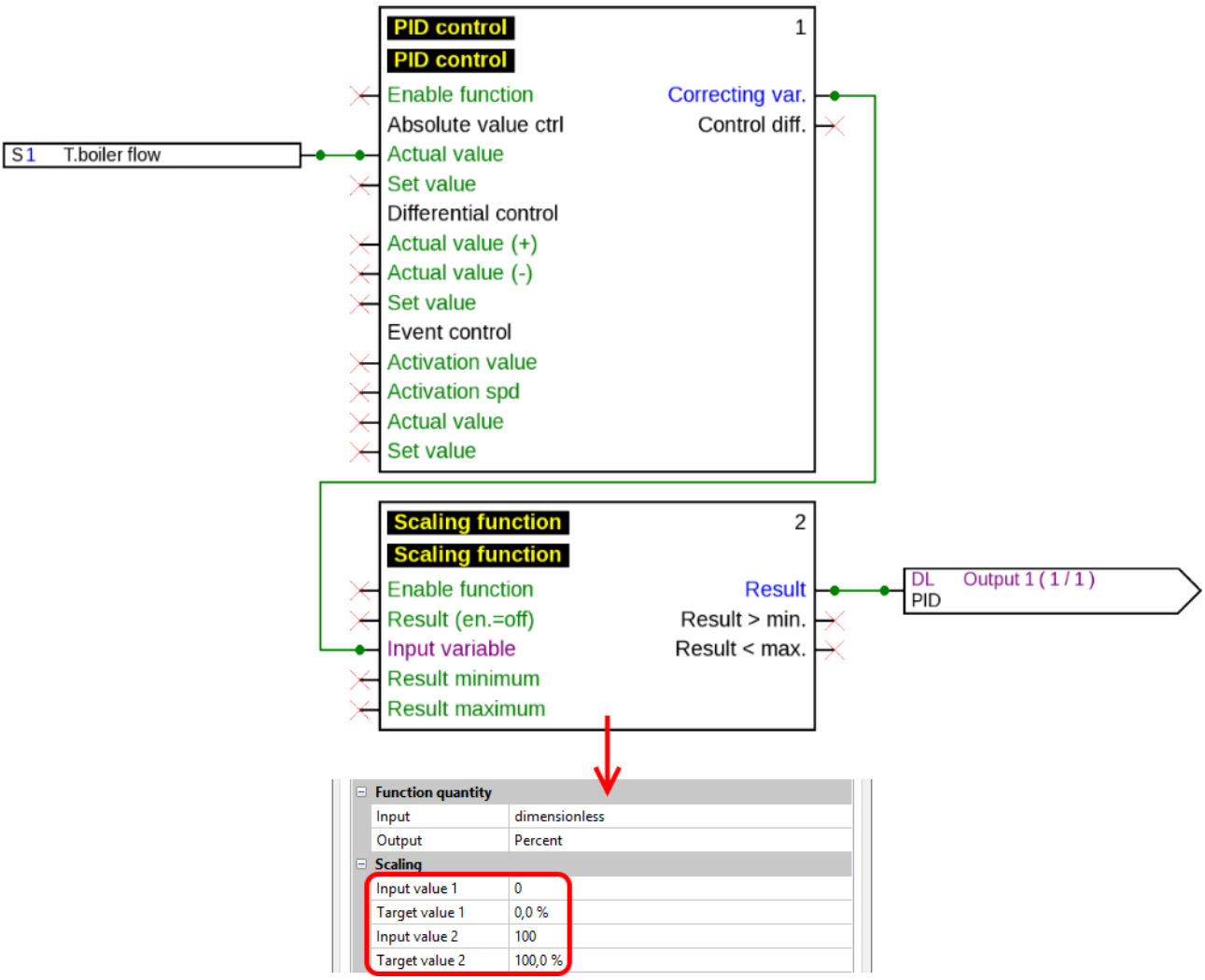
Example:

desired address	**6**
factory setting	1
dip switches 1 and 4	+ 5
sum = address	**= 6**
dip switches 1 and 4 mus be set to **ON.**	

Correct position of dip switches according to example.

Programming using TAPPS2

Example: Issuing a PID correcting variable at output 1 of the power controller (address 1)



In the scaling function, a PID correcting variable of e.g. **60** results in **60.0%.**
The power controller (address 1) consequently switches performance of **85.0%** at output 1.

Technical data

DL-Bus load	10%
Power consumption	max 60 mW
Input voltage	230V AC
IP rating	IP40
Clamping range	max. 1,5 mm^2
Max. ambient temperature	45 °C
Fuse	**No internal fuse** Device and consumer must be fused (16A) according to norms

Subject to technical modifications.

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