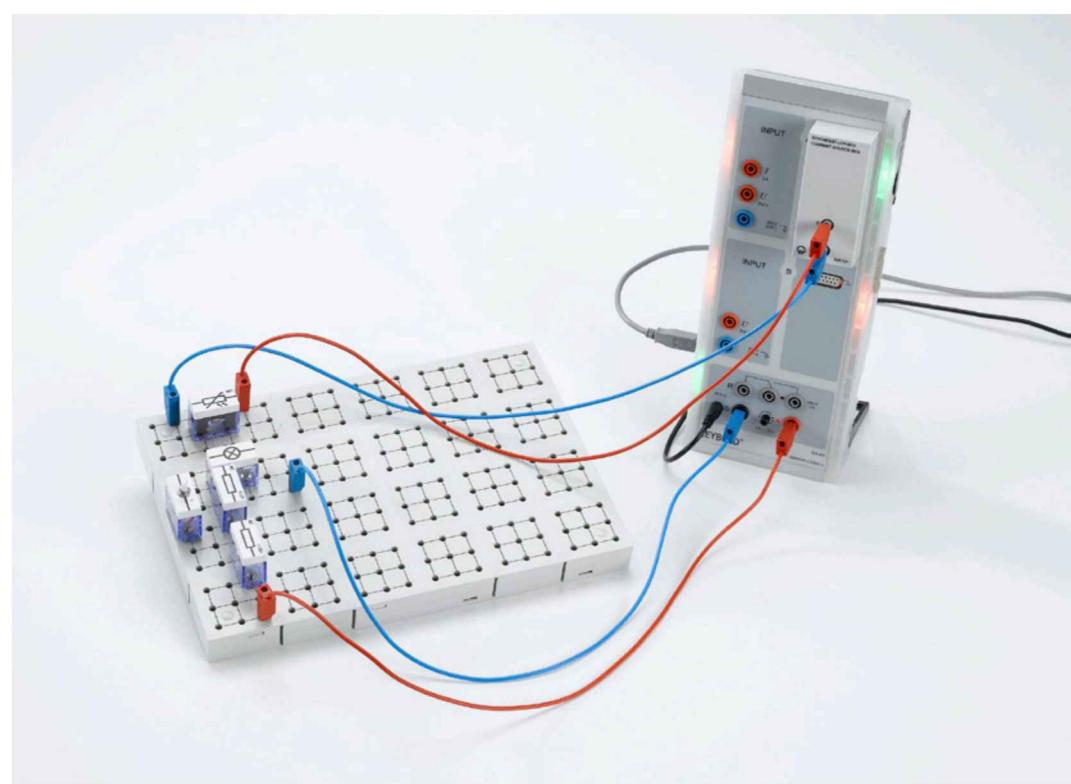


E6.2.1

CONTROL TECHNOLOGY WITH CASSY

E6.2.1.1 Closed Loop Brightness Control

E6.2.1.2 Closed Loop Voltage Control



Closed Loop Brightness Control (E6.2.1.1)

Cat. No.	Description		
		E6.2.1.1	E6.2.1.2
576 74	Plug-in board, DIN A4, STE	1	1
579 05	Lamp holder, E10, lateral, STE 2/19	1	
505 10	Bulbs, 3.8 V/0.27 W, E10, set of 10	1	1
579 13	Toggle switch, STE 2/19	1	1
578 02	Photoresistor LDR 05, STE 2/19	1	
577 20	Resistor, 10 W, STE 2/19	1	
577 23	Resistor, 20 W, STE 2/19	1	
577 28	Resistor, 47 W, STE 2/19	1	
577 32	Resistor, 100 W, STE 2/19	1	
524 013	Sensor-CASSY 2	1	1
524 220	CASSY Lab 2	1	1
524 031	Current source box	1	
501 46	Connecting leads, 19 A, 100 cm, red/blue, pair	2	2
579 43	Motor and tachogenerator, STE 4/19/50	2	
307 641ET5	PVC tubing, 6 mm diam., 5 m	1	
579 06	Lamp holder, E10, top, STE 2/19	3	
501 48	Bridging plugs, STE 2/19, set of 10	1	
524 011USB	Power-CASSY USB	1	
additionally required:			
1 PC with Windows 7/8/10			

Closed Loop Brightness Control

The aim of the experiments is the computer-aided realisation of closed control loops. With PID- and 2-Point controllers the power of an incandescent lamp is controlled, whose brightness is measured using a photo resistor.

Closed Loop Voltage Control

The aim of the experiments is the computer-aided realisation of closed control loops. PID- and 2-point controllers supervise a generator which supplies a constant voltage independently of the load.

Experiments are operated and evaluated with CASSY Lab 2.