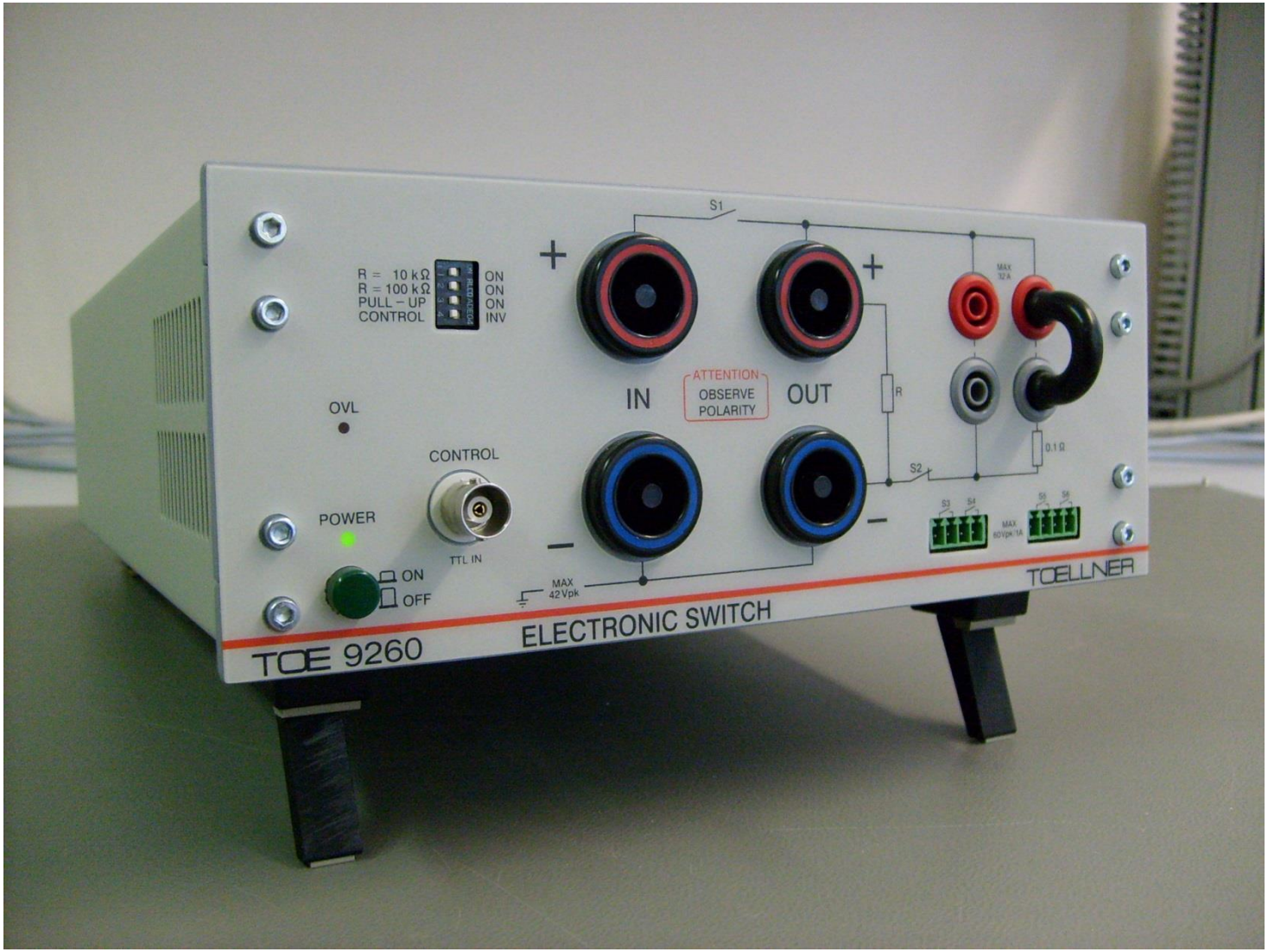
TOE 9260, Electronic Switch



TOE 9260, Electronic Switch

Features

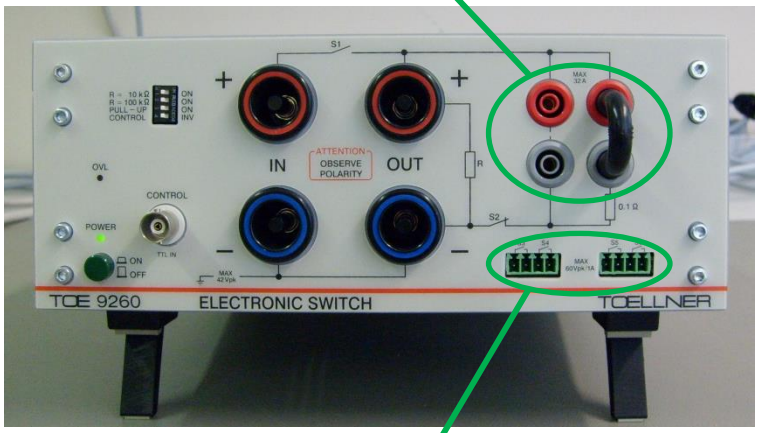
- Electronic Switch for short interruptions / micro interruptions
- Applicable both for supply line and signal line interruptions

- Used for tests of automotive components according to LV 124 standard / VW 80000 and comparable:
  - LV124 E-10: Short interruptions on supply lines
  - LV124 E-13: Short interruptions on signal lines

TOE 9260, Electronic Switch

Technical Data

- Rise time, fall time < 1 µs
- Rated voltage 60 V
- Rated current 50 A resp. 100 A
- Branch path for discharge of load available
- 4 additional bidirectional switches for signal lines of up to 1 A current
- Short circuit / over current and over temperature protection



TOE 9260, Electronic Switch

Needed Equipment

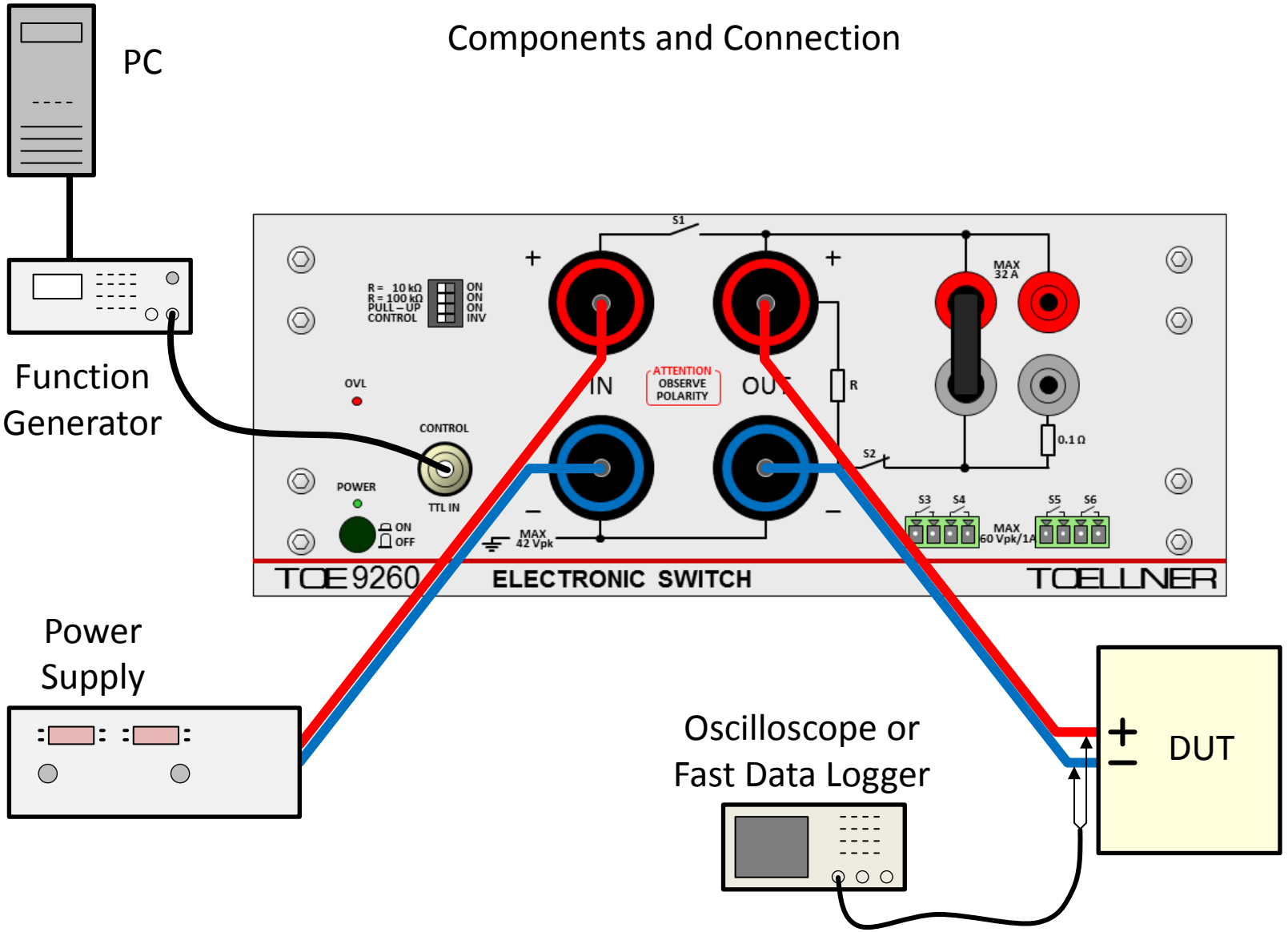
- Power supply according to requirements of DUT
- Timing control of the switching states:
  - Function generator
  - PC
  - Software

mandatory for LV 124, E-10
otherwise optional

- Oscilloscope resp. fast data logger

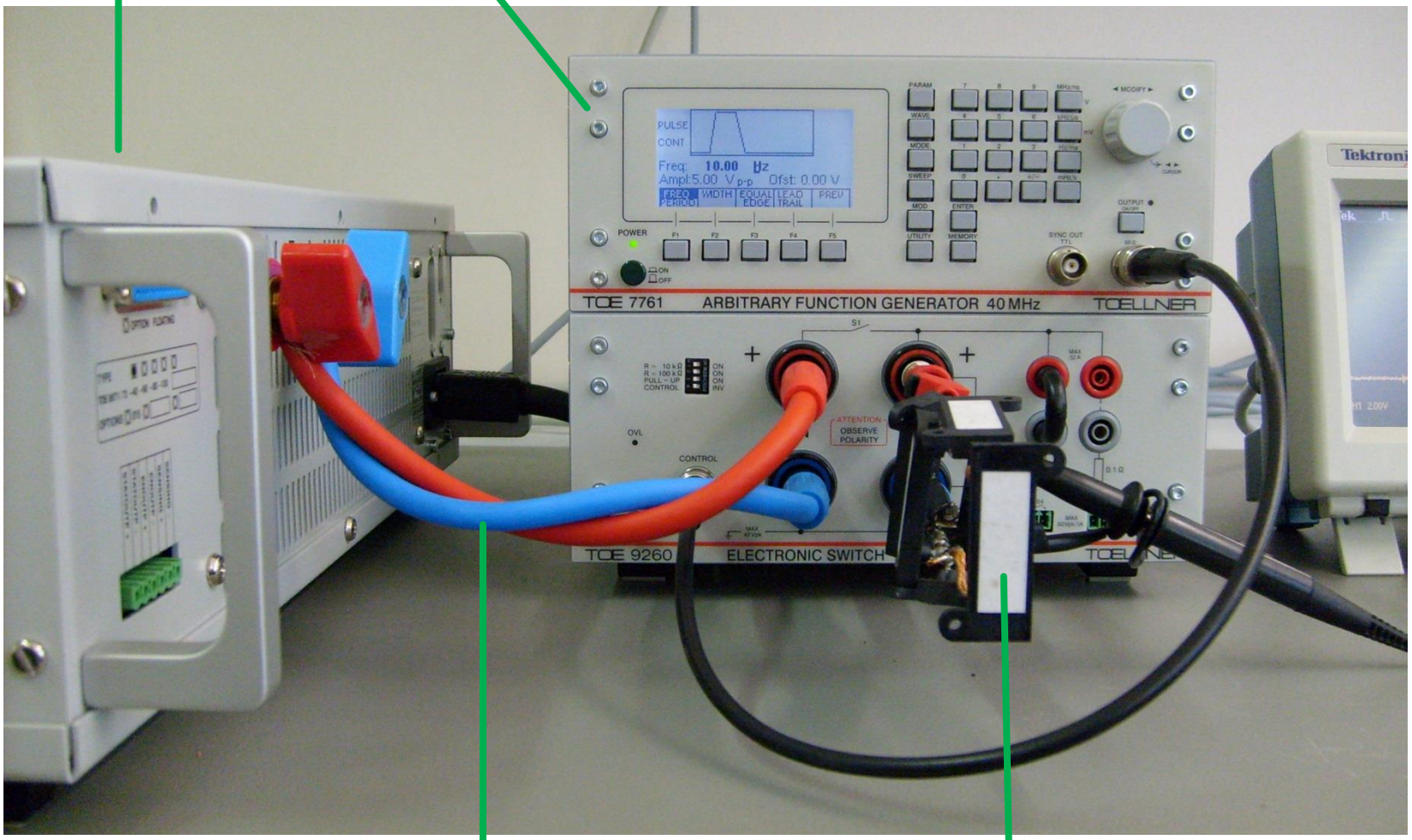
TOE 9260, Electronic Switch

Components and Connection



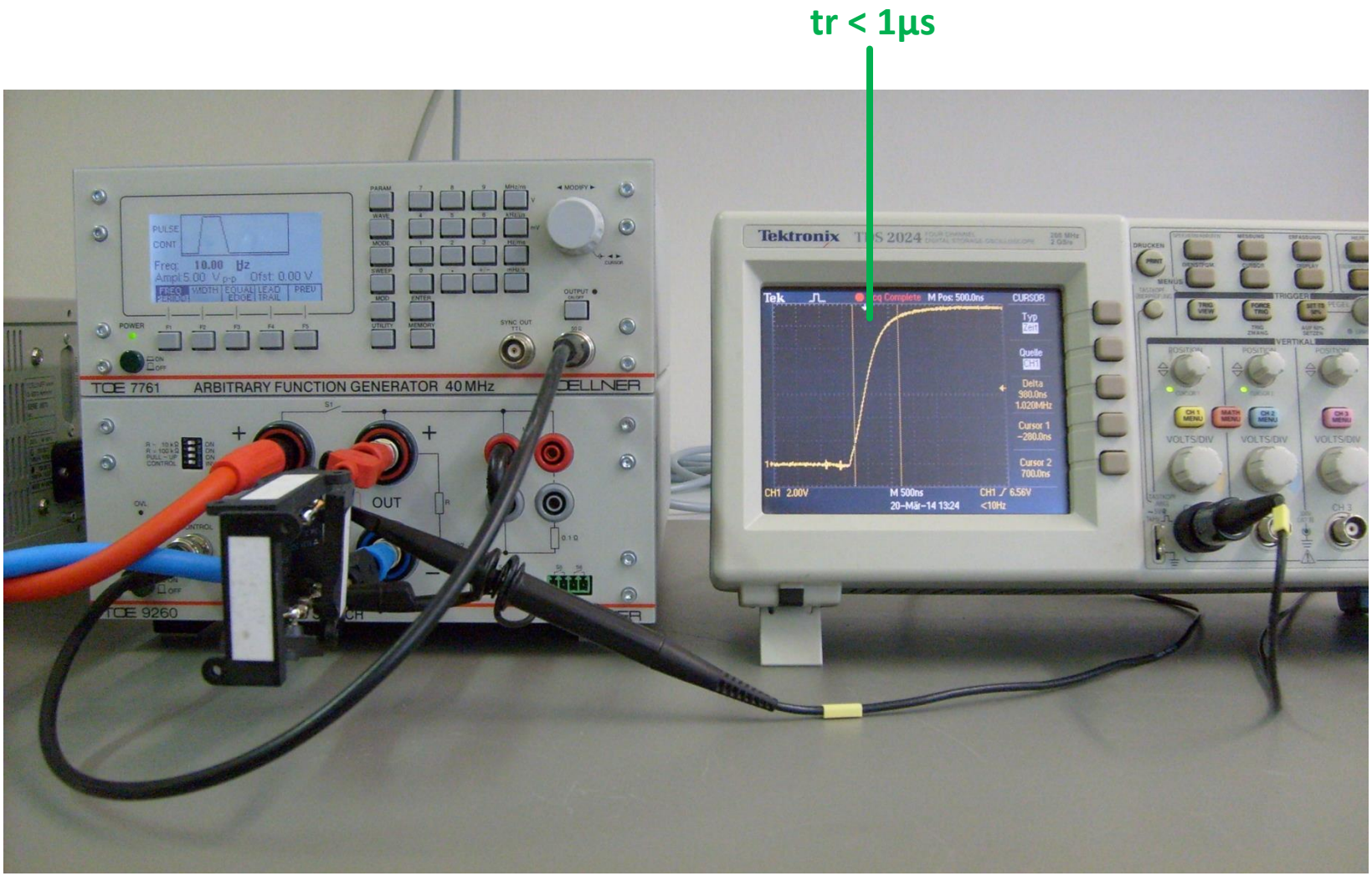
TOE 9260, Electronic Switch

Real Assembly



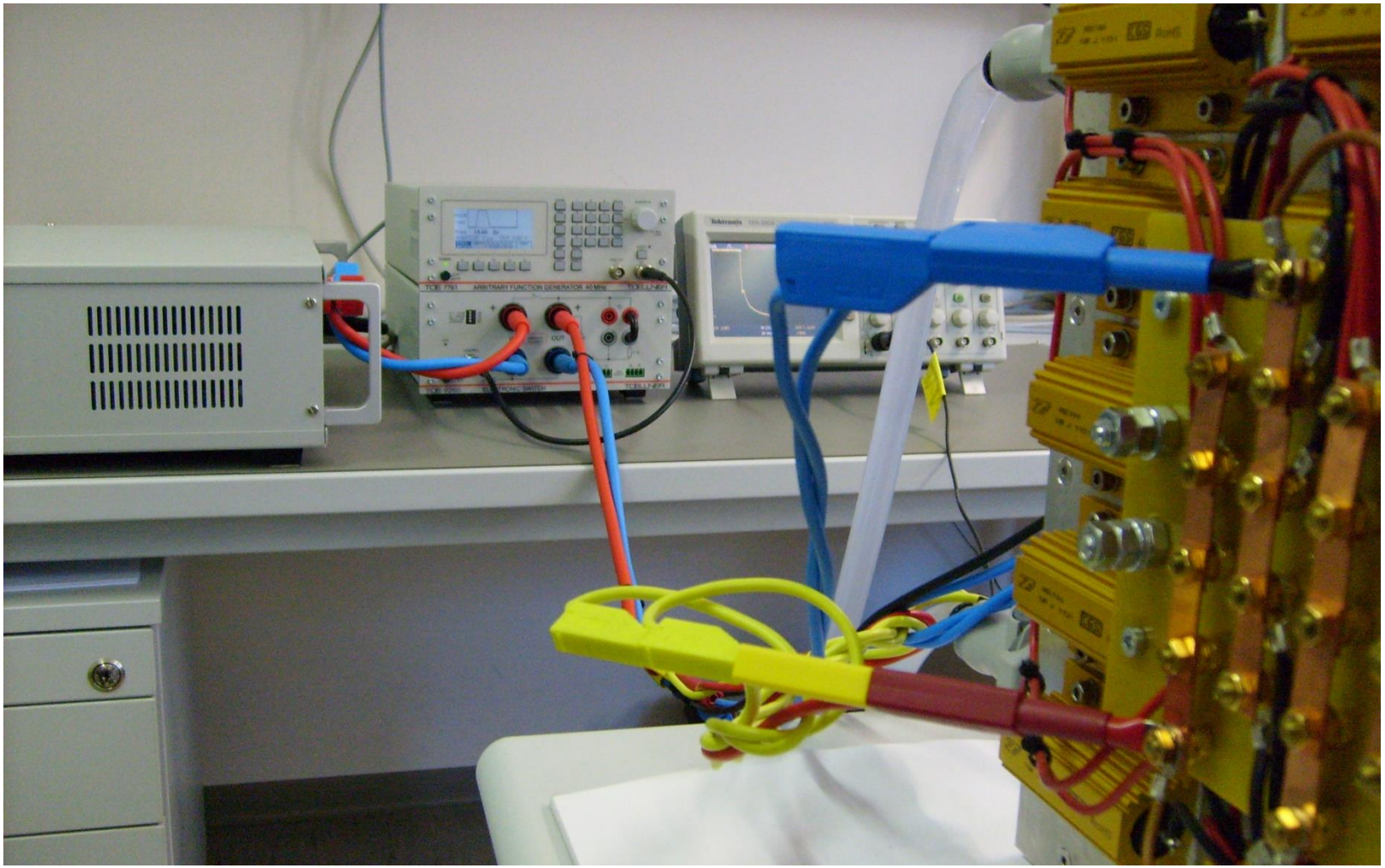
TOE 9260, Electronic Switch

Measurement



TOE 9260, Electronic Switch

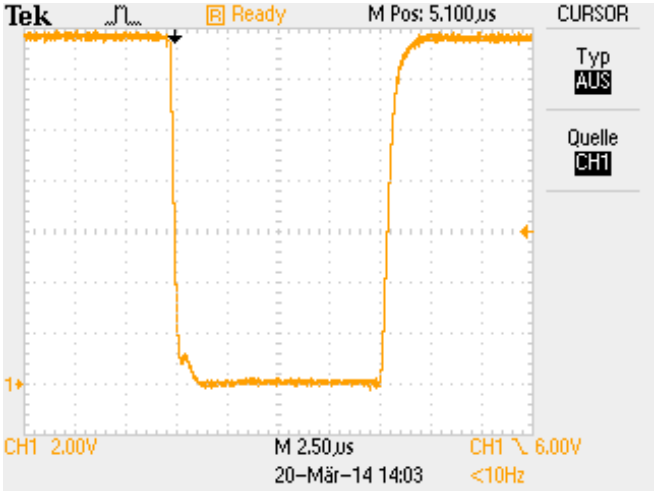
Connection to real load



TOE 9260, Electronic Switch

Measurement Results

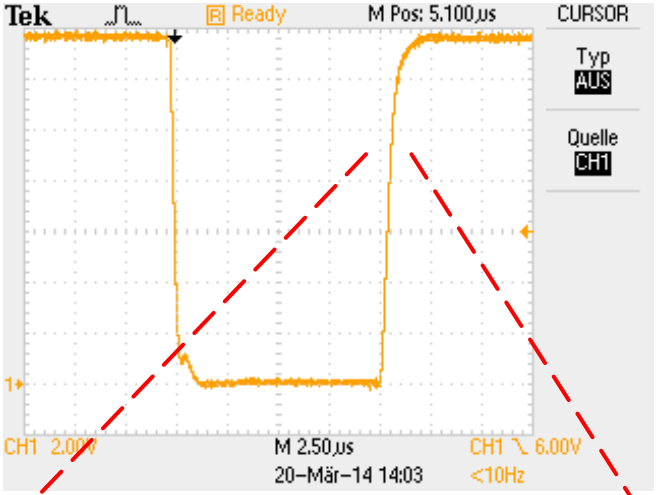
Test Load (= Reference Load)
thick-film resistor 1 Ohm, no cable

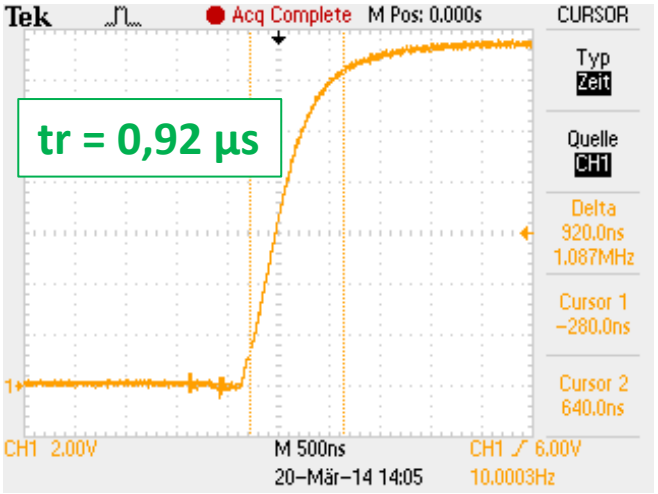


TOE 9260, Electronic Switch

Measurement Results

Test Load (= Reference Load)
thick-film resistor 1 Ohm, no cable



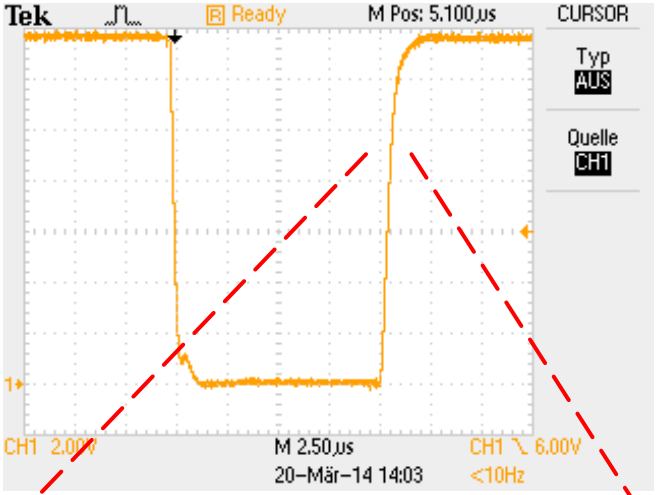


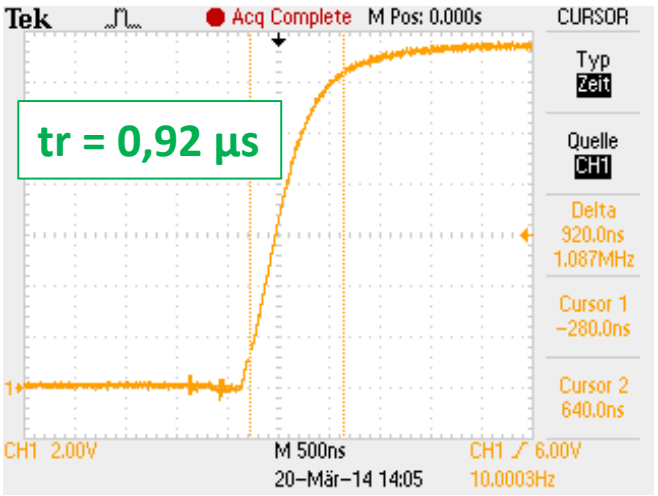
tr = 0,92 µs

TOE 9260, Electronic Switch

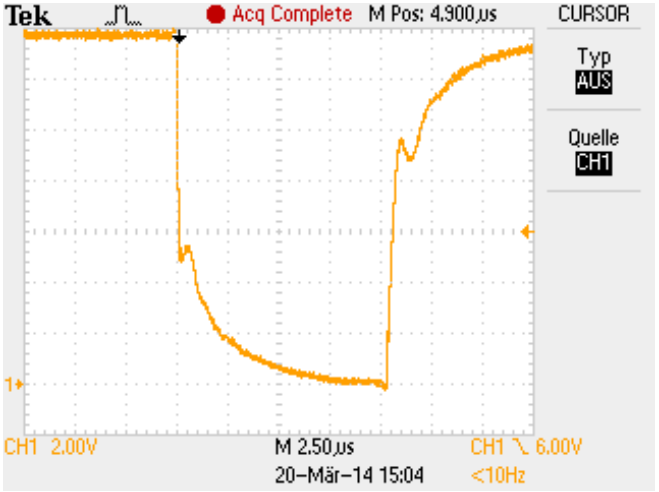
Measurement Results

Test Load (= Reference Load)
thick-film resistor 1 Ohm, no cable





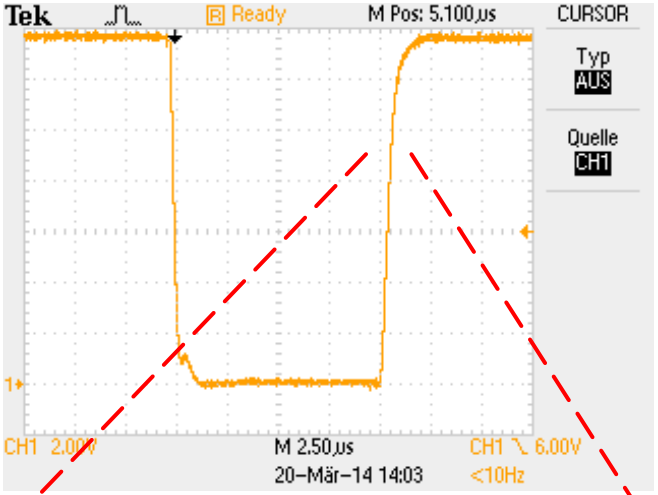
Real Load
wire resistor 1 Ohm with 1m cable

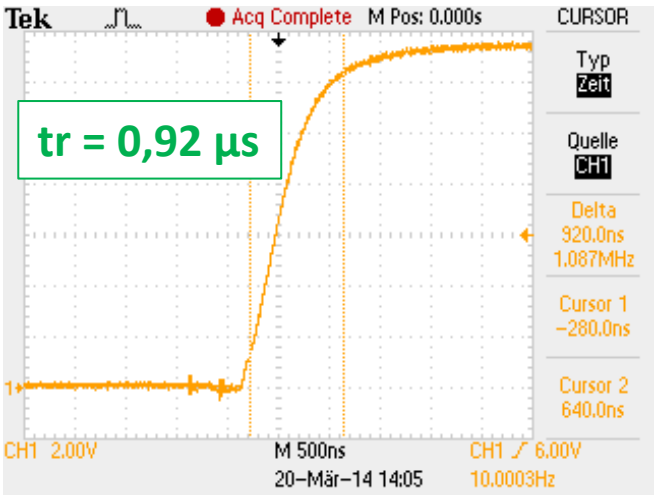


TOE 9260, Electronic Switch

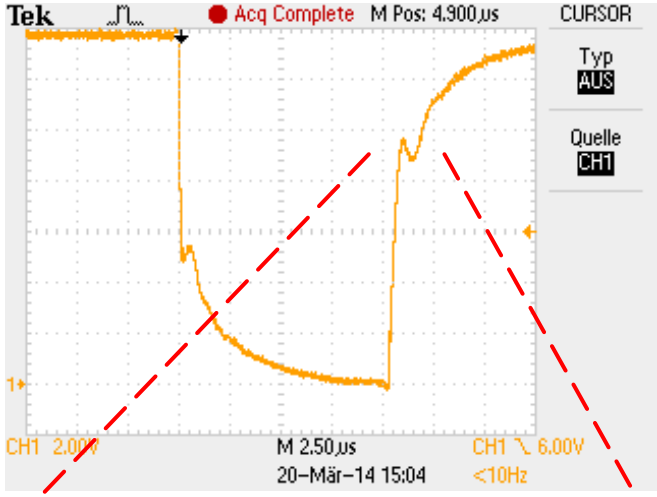
Measurement Results

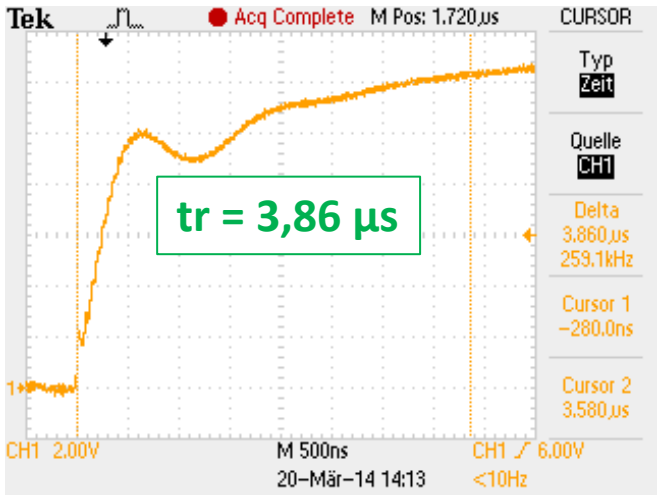
Test Load (= Reference Load)
thick-film resistor 1 Ohm, no cable





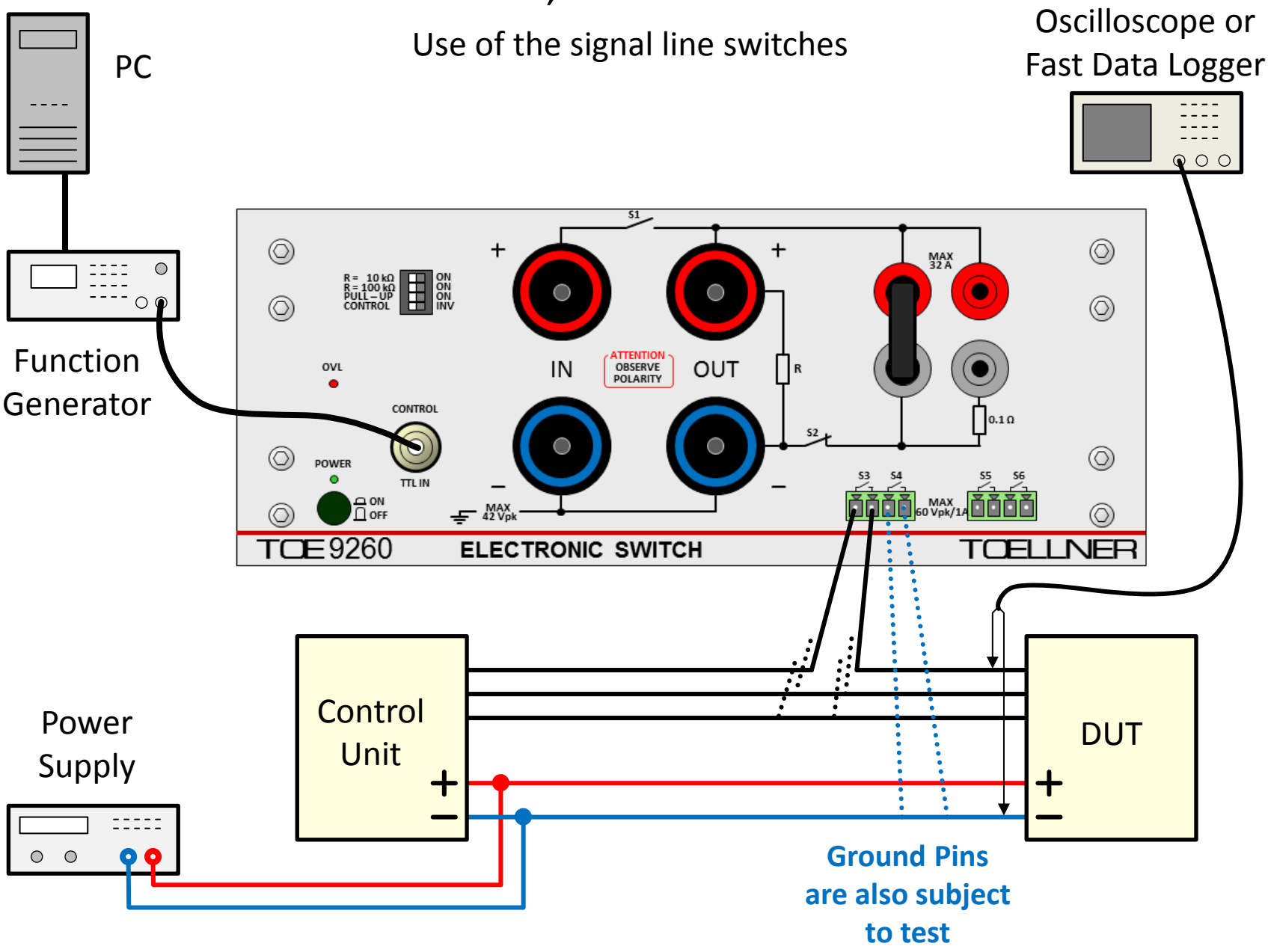
Real Load
wire resistor 1 Ohm with 1m cable





TOE 9260, Electronic Switch

Use of the signal line switches



TOE 9260, Electronic Switch

Choosing the right switch for LV 124 testing