



FEATURES

- **Simulation of**
 - Current: 0...20 mA active or passive
 - Voltage: 0...10 V
- **Metering**
 - Current -20...0...+20 mA
 - Voltage -10...0...+10 V
- **USB2 Interface function: interface for parameterizable Schuhmann products**
- **Galvanic 3-way isolation of 500 V**
- **Including USB-connecting lines, case and measuring lines**



FUNCTION

The universal measurement- and test equipment USB-Simulator is designed for the technician on site who has to simulate and meter current and voltage.

The unit is being operated via the usb port of a PC or notebook.

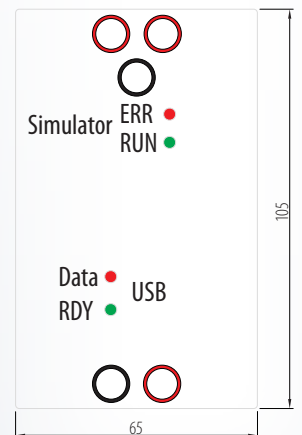
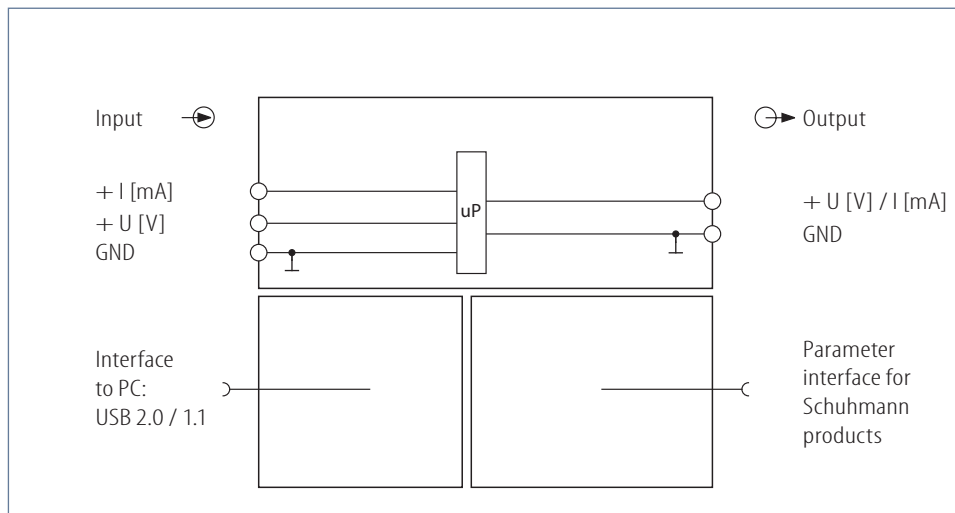
The operation is carried out by the KALIB-Software.

Caution: KALIB-Software and the USB-Driver have to be installed before the adapter will be connected to the PC.

To avoid damage to the simulator, first select function, then connect the measuring lines.

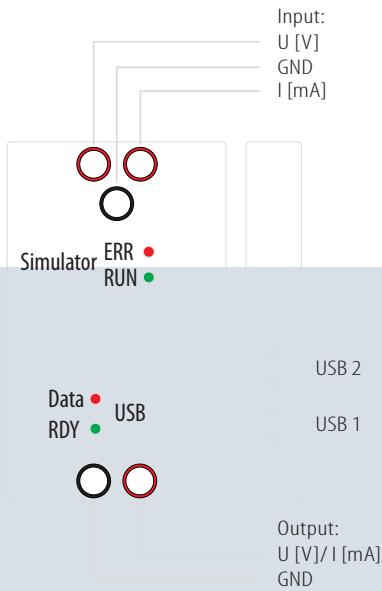
The range of application is divided as follows:

- **Current or voltage transmitter:**
For the calibration and testing of loops and transducers.
- **Voltmeter and amperemeter:**
With a resolution of 0,1 V respectively 0,1 mA, measurements can be made directly on measuring loops or devices to be checked.
- **USB2 Interface functionality:**
The USB-Simulator can be used instead of the USB2 Interface for all parameterizable Schuhmann products.
Overview: www.schuhmann-messtechnik.de



USB-Simulator

Connection diagram:



USB-Simulator incl. USB connecting cables, case and measuring lines

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Function:

All output values are being selected by KALIB-Software.

Input:

USB interface for the connection with the PC: USB 1
 Directly fed by PC:
 auxiliary power: 5 V DC
 current consumption: max. 300 mA
 protocol: USB 2.0 B and USB 1.1 „Full Speed“
 Measuring inputs:
 Current: -20...0...+20 mA
 Voltage: -10...0...+10 V

Output:

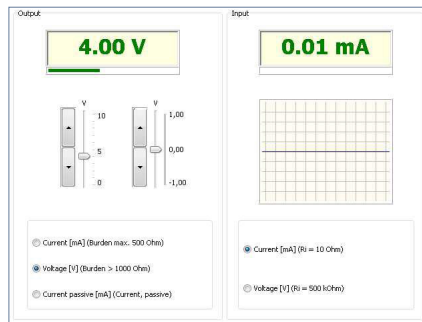
USB interface for the connection with Schuhmann devices: USB 2
 Current active: 0...21 mA
 Current passive: 0...21 mA
 Voltage: 0...10,5 V

Display:

LED USB RDY: green, active USB communication with the PC in order (driver loaded)
 LED USB Data: red, active data sent between PC and device (USB 1) or between the device and the unit to be parameterized (USB 2)
 LED Sim. RUN: green, active simulator on, input/ output active
 LED Sim. ERR: red, active error at the output signal (overcurrent/ wire break)

Included in delivery:

USB-Simulator
 PC-cable: USB-cable type A/Mini-B (length approx. 2 m)
 Device-cable: mini-USB-cable type A/B (length approx. 2 m)
 Case
 Measuring lines
 Software: KALIB-Software for parameterization
 USB-driver suitable for Windows XP, Vista, 7, 10 in 32- and 64-bit



Environmental conditions:

Storage temperature: -40...+70 °C
 Operating temperature: 10...55 °C
 Isolation voltage:
 500 V eff. 1 sec. input/ output/ USB 1/ USB 2

Auxiliary power:

5 V DC from PC via USB-cable

Accuracy:

Input error (U/ I): < 0,2 %
 Output error (U/ I): < 0,2 %

Directive:

EMC Directive: 2014/30/EU*
 Low Voltage Directive: 2014/35/EU
 *minimum deviations possible during HF-radiation influence

Mounting details:

Dimensions: 105 x 65 x 39 mm
 Weight: 120 g
 Material: ABS
 Flammability class: UL 94 HB
 Approval: CE
 Connection: safety socket 4 mm
 USB-cable

Ordering information:

Type: USB-Simulator
 incl. USB connecting cables,
 case, measuring lines

31.10.2018