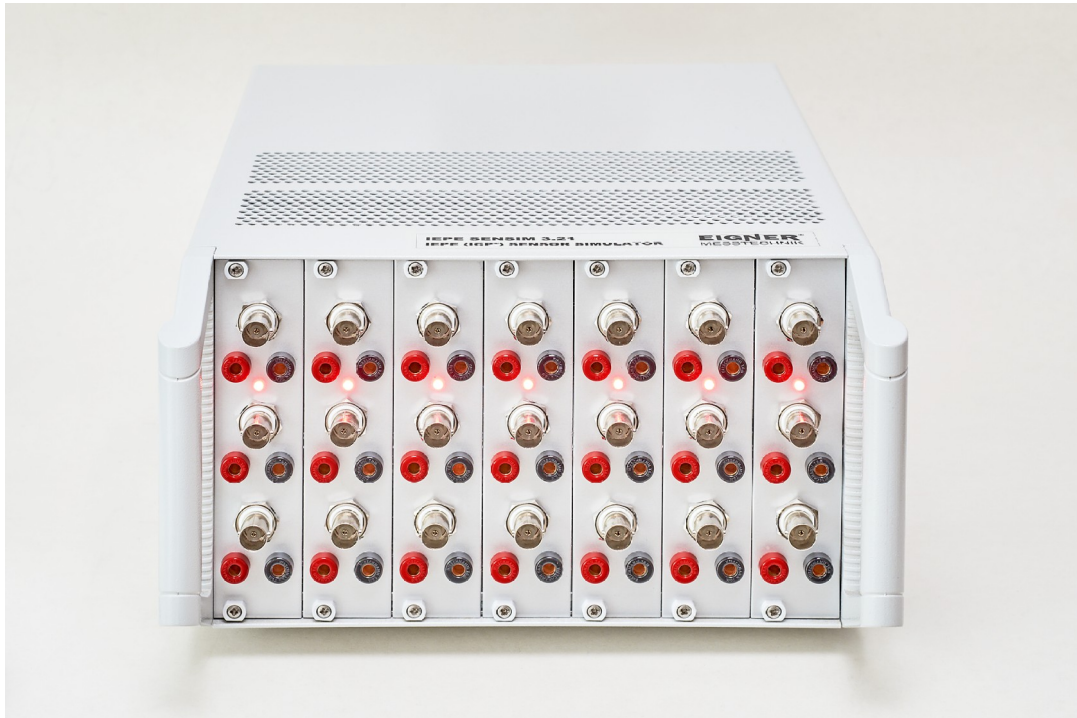


IEPE SENSIM 3.21 – IEPE SENSOR SIMULATOR

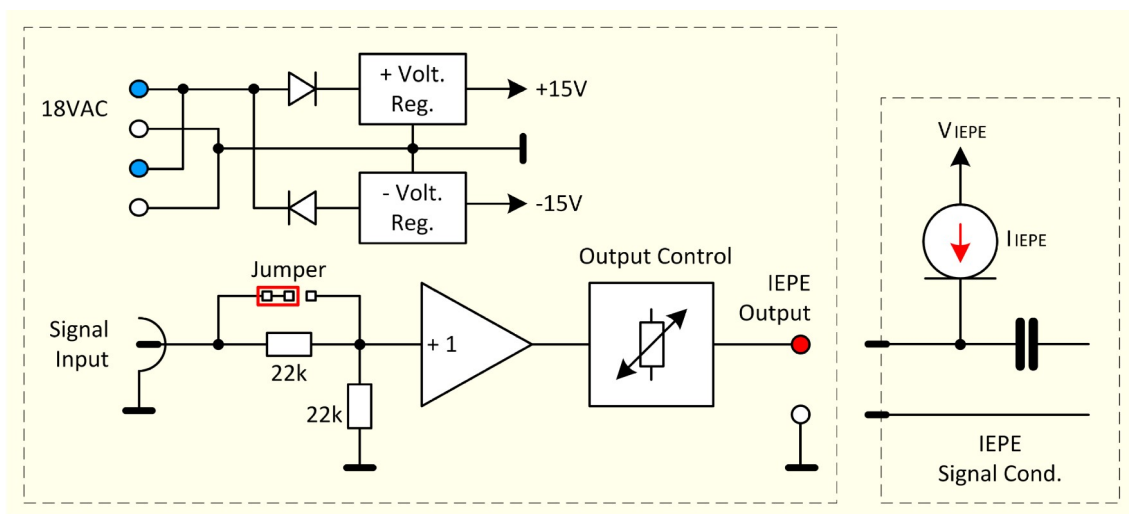
IEPE SENSIM 3.21 is used to simulate IEPE sensors, in cases where the use of real IEPE sensors is not practical. For example when testing a complete measuring chain with a lot of measuring points.

21-channel unit: 7 plug-in units (6 HP / 3 U) with 3 channels each



Signal inputs: BNC including each
IEPE outputs: Banana jacks – red = IEPE Output, black = GND.

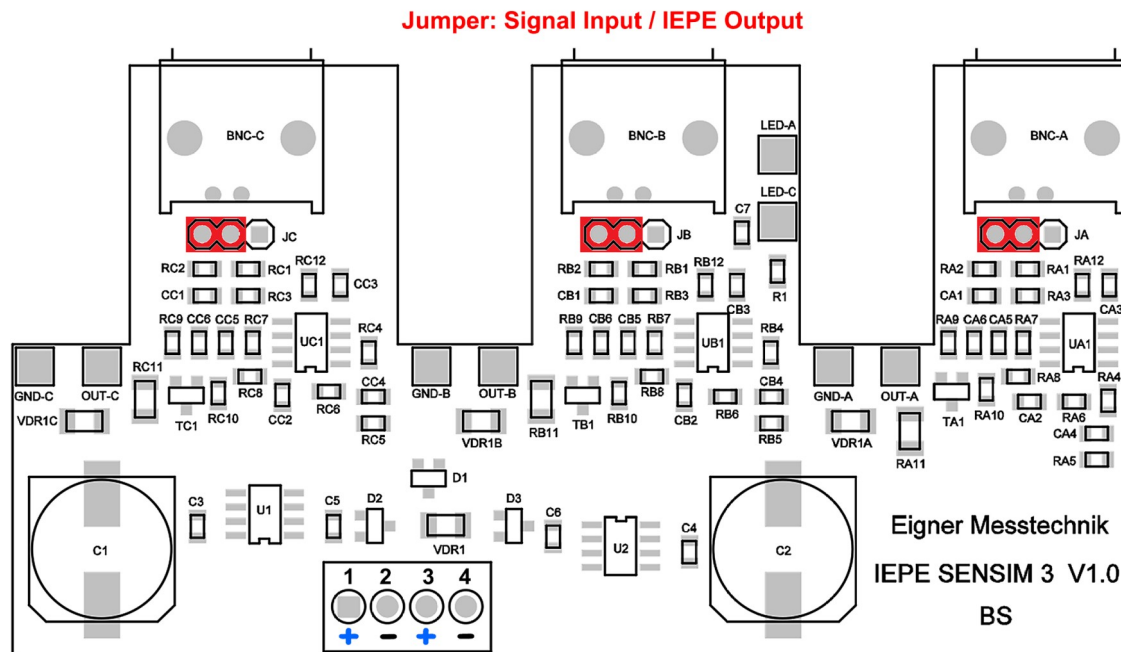
Block diagram: 1 unit IEPE SENSIM 3



Setting signal input: default = jumper open, as shown
 Jumper open: signal input / IEPE output = 1 / 2 = ±10 V / ±5 V, ($R_{input} = 44\text{ k}\Omega$)
 Jumper set: signal input / IEPE output = 1 / 1 = ±10 V / ±10 V ($R_{input} = 22\text{ k}\Omega$)

IEPE SENSIM 3.21 – IEPE SENSOR SIMULATOR

Layout: Jumper location JA, JB, JC



Klemme: AC-Stromversorgung - Kabel blau-schwarz nicht vertauschen!

Please note:

All GNDs are at the same potential, as are terminals 2 and 4 of the power supply to which the black cables are connected.

Therefore the blue and black cables on the terminals must never be interchanged → Risk of short circuit!

Technical data:

Signal input (BNC): ± 10 V max.

IEPE output (Banana jacks): ± 5 V (R_{IN} 44 k Ω) or ± 10 V (R_{IN} 22 k Ω) – defined by jumper JA, JB, JC

Gain error signal input / IEPE output: $< 0,5\%$ f. r.

DC-Offset: approx. 11 VDC @ IEPE Excitation: 4 mA @ 24 VDC – 30 VDC

Signal bandwidth: 0 to 25 kHz (-3 db)

Power supply entire device: 230 VAC/50 Hz

Size: $\frac{1}{2}$ 19 inch = 42 HP / 3 U, W x H x D (total) approx. 245 x 145 x 360 [mm³]

Weight: approx. 4,7 kg

Please note:

Only current-limited voltages max. 10 mA @ 32 VDC to IEPE outputs (bananas).

Higher values can damage the unit.