# IEPE EMULATOR IV - VERSATILE IEPE SENSOR SIMULATOR

EIGNER MESSTECHNIK

Designed for test cases without calibrated test bench (shaker) or for tests with sensor independent signal sources.

- Usable for IEPE constant current 2 to 20 mA at 18 to 30 VDC (internally limited to 30 mA max.)
- Power supply: internal battery / accu block 9 V (6LR61) or external 12 VDC (range 7 to 18 VDC)
- Power consumption: approx. 60 mA at 9 VDC
- Battery monitoring: power LED flashes in case of undervoltage < 6.5 VDC
- Output range: 0 to ±5 VAC = 3.536 V_{RMS} (for sine wave)
- Output bias: +10 to +12 VDC
- External Input range: 0 to ±5 VAC = 3.536 V_{RMS}
- Bandwith: 0 to 50 kHz
- Internal Sine Wave Generator: ±4 VAC = 2.828 V_{RMS} @ 1024 Hz
- Accuracy: Signal sources (int., ext.) to Output >≥ ± 0,1 %
- Dimensions: 109 * 35 * 129 [mm³] (over all, incl. BNC) Weight: approx. 300 g (incl. 9V battery)
- Protect. class: IP 54 (battery oper. with closed rear cap)

IEPE EMULATOR IV
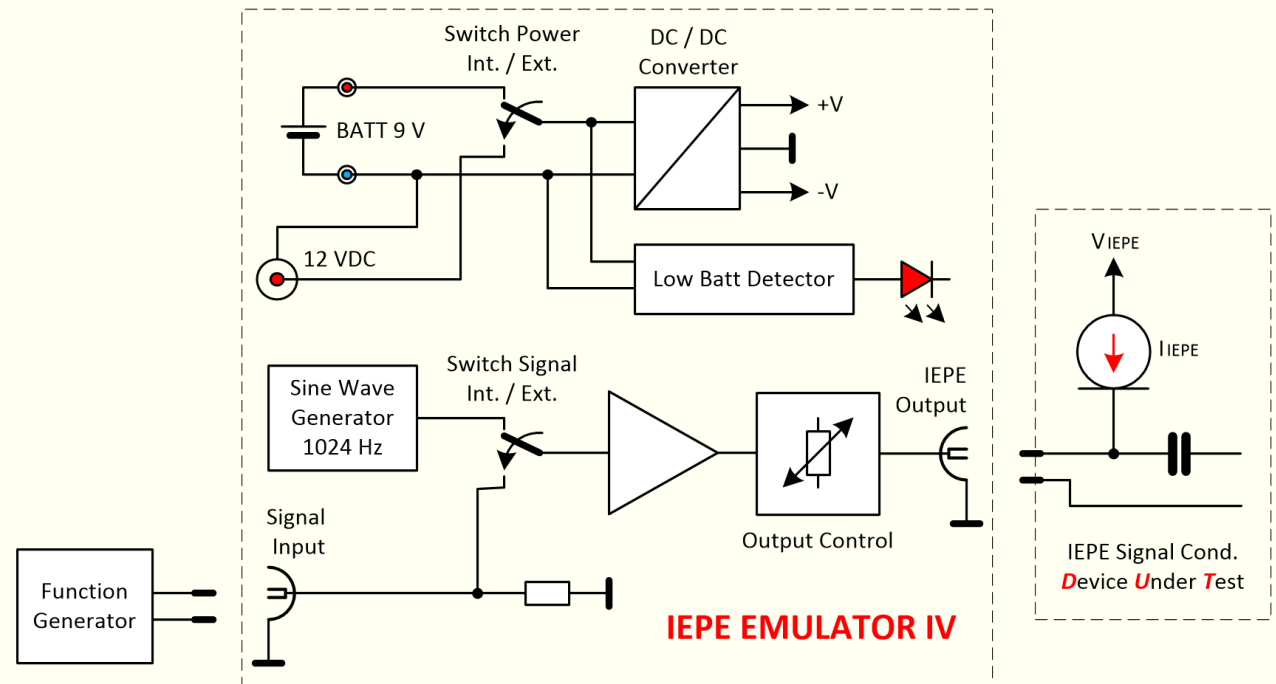
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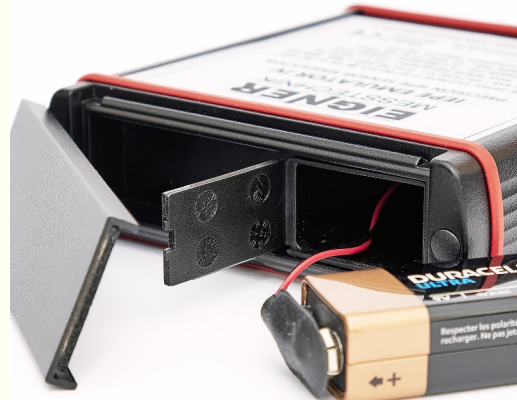
Operation

- Install the 9 V block battery / accu in the housing (rear).
- Use either the internal battery (for short measurements) or an external 12 VDC power supply.
- Connect the Device Under Test (DUT) to the output BNC socket and switch on its power supply.
- Note: Do not use a DUT without IEPE current limitation!
- Use either the internal sine wave generator or an external function generator as test signal.
- Check the DUT input test signal by using a BNC T-connector (optional).
- Replace the battery when the power LED flashes.