

Calibration and Testing Device for Strain Gauge Amplifiers



Strain Gauge Calibrator with IEEE 488 Interface

- Calibrator for simulation of strain gauge sensors
- Computer control via IEEE 488 interface
- Manual operation with keys,
Display by LED strip
- 20 switch positions, polarity switch
- Bridge resistance options 120, 350, 1,000 Ω
- 2 bridge resistance combinations in one device
(see picture above)
- 1 channel or 12 (resp. 24) channels via multiplexer

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DMS Calibrator IEEE 488

Applications

The device is used for simulation of strain gauge sensors, wherever strain gauge amplifiers need to be tested or calibrated. 20 different select positions from 0.1 mV/V to 250 mV/V allow a wide range use. Switch over of polarity is an additional feature. In an extended version two bridge resistances are combined in one device (see picture at front side) which allow an even broader range of use. A LED strip displays the off-resonance value in mV/V. Additional LEDs display polarity setting and selected bridge resistance.

Via the **IEEE 488** interface all functions of the calibrator can be computer controlled, which is especially useful in a calibration lab. A 12-channel version guarantees very efficient operation. In polling mode an information is given when the transient state is reached. Thus optimum handling time can be achieved. Alternatively manual operation is possible. Off-resonance can be set with two keys. Polarity setting and bridge resistance selection can be done with further keys.

Technical Data

Off-resonance settings (Values in mV/V)	0; 0.1; 0.2; 0.3; 0.4; 0.5; 0.6; 0.8; 1; 1.5; 2; 3; 4; 5; 10; 20; 30; 40; 50; 100; 250
Bridge resistances	120, 350, 1,000 Ω (others on request)
Terminals 1-channel version	7 banana plugs for 6-wire connection and shield plus 1 Lemo plug, series 2B, 7-pin (others on request)
Terminals 12-channel version	12 Lemo- plugs, series 2B, 7-pin (others on request)
Accuracy	$\pm 0.02\%$ (reference 2mV/V off-resonance, resp. >2 mV/V)
Stability	$\pm 0.02\%$ (reference 2mV/V off-resonance, resp. >2 mV/V)

