

DMS IEEE 488 Calibrator



Characteristics

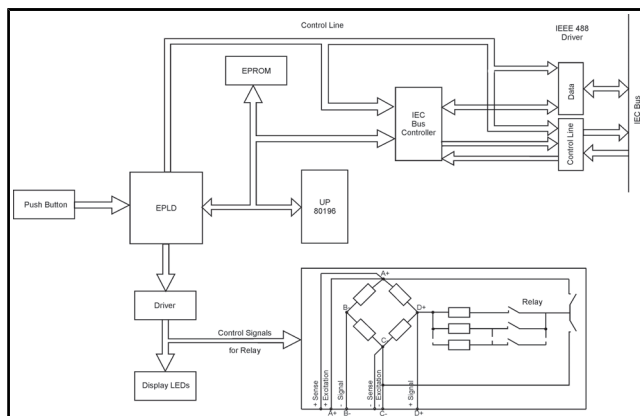
The **IEEE 488 strain gauge calibrator** is used for simulation of strain gauge sensors with bridge resistances of 120 Ω , 350 Ω or 1000 Ω . Other bridge resistances or the combination of up to 2 bridges in one housing are available on request. The device is used wherever strain gauge amplifiers need to be tested or calibrated. The sensitivity setting is done by parallel connection of resistances to a shunt arm. For switching of polarity the shunt circuit is reversed.

The feed-forward control by a computer is done via the IEEE 488 interface. For that the address can be configured with a DIP switch on the back side. Functions like ZERO, sensitivity, and switching of polarity can be also manually set with keys. LED strips display the sensitivity in mV/V, other LEDs display polarity setting and selected bridge resistance.

Technical Data

Sensitivity settings	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 mV/V
Bridge resistances	120, 350, 1000 Ω
Terminal(s)	7-pole Lemo jack series 2B, optional 7 Banana jacks
Accuracy DC	$\pm 0.02 \%$ (for setting ≥ 2 mV/V)
for carrier frequency 5 kHz	$\pm 0.5 \%$
Stability	$\pm 0.02 \%$ (for setting ≥ 2 mV/V)
Environmental temperature	0..50 $^{\circ}\text{C}$

Block Diagram



Dimensions

480 x 40 (80) x 290 mm (B x H x T)

Ordering Code

SIM-DMS-IEEE - / R - - -

1. IEEE simulator

120	Bridge resistance 120 Ω
350	Bridge resistance 350 Ω
1000	Bridge resistance 1000 Ω
120 / 350	Housing with 2 bridge resistances 120 / 350 Ω
120 / 1000	Housing with 2 bridge resistances 120 / 1000 Ω
350 / 1000	Housing with 2 bridge resistances 350 / 1000 Ω

2. Option

FK1	Frequency inspection up to 5 kHz for 1 bridge resistance
FK2	Frequency inspection up to 5 kHz for 2 bridge resistances

3. Terminal Accessories

-	7-pole Lemo socket, 7 banana sockets (Standard)
LS7	Plug for 7-pole Lemo socket, price per plug

Example: SIM-DMS-IEEE-350-R