

Product Information

DMS Manual Calibrator



Picture with 2 bridge resistances

Characteristics

The **manual strain gauge calibrator** is used for simulation of strain gauge sensors with bridge resistances of 120 W, 350 W or 1000 W. 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.

Sensitivity settings and switching of polarity are done manually with high-precision switches.

Technical Data

Sensitivity settings	0; 0.25; 0.5; 1; 2; 4; 5; 8; 10; 25; 50 mV/V
Bridge resistances	120, 350, 1000 Ω
Terminal(s)	7-pole Lemo jack series 2B (others on request) 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 °C

Dimensions

118 x 64 x 170mm (B x H x T)

Ordering Code

SIM-DMS - ^{1.} XXX/YYY R - ^{2.} - ^{3.} - ^{4.}

1. Hand-operated 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

-	7-pole Lemo socket (standard)
BAN	optional plus 7 banana sockets (only for 1 bridge resistance)

4. Accessories

LS7	Plug for 7-pole Lemo socket, price per plug
-----	---

Example: SIM-DMS-120/350R-LS7