

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 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.

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	$\pm 0.02\%$ (for setting ≥ 2 mV/V)
Stability	$\pm 0.02\%$ (for setting ≥ 2 mV/V)
Environmental temperature	0..50 $^{\circ}\text{C}$

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 compensation for 1 bridge resistance
FK2	Frequency compensation 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