

# Multifunction process calibrators // for electrical signals



## MC 50.2

### Your advantages

#### Type

MC 50.2

- Highest accuracy
- Generation of RTD-, TC-, mA- and V signals as well as frequency and pulses
- For mobile on-site calibration

### Technical data

#### Type

**MC 50.2**

#### resistance thermometers (RTD)

##### Generation and measurement of RTD signals

Pt50, Pt100, Pt200, Pt500, Pt1000, Cu10, Cu50, Ni100, Ni120, Ni1000

##### $\Omega$ -generator function

0...4000  $\Omega$

##### $\Omega$ -measurement function

0...4000  $\Omega$

##### Accuracy (of reading + const.)

$\pm 0.012\%$

##### Selectable temperature unit

$^{\circ}\text{C} / ^{\circ}\text{F}$

##### Measurement of multi-wire connections

2 / 3 / 4

#### Thermocouples (TC)

##### Generation and measurement of TC signals

J, K, T, R, S, B, N, E, U, L

##### mV-generator function

0...100 mV

##### mV-measurement function

0...100 mV

##### Accuracy (of reading + const.)

$\pm 0.013\%$

##### Selectable temperature unit

$^{\circ}\text{C} / ^{\circ}\text{F}$

##### Internal comparison point

$\pm 0.3^{\circ}\text{C}$

#### Current (mA)

##### Loop current signal generation

0(4)...24 mA

##### Loop current signal measurement

0(4)...50 mA

##### Accuracy (of reading + const.)

$\pm 0.0175\%$

##### Current loop supply

24 V  $\pm 10\%$ , 22 mA

##### HART Communication protective resistor

250  $\Omega$

#### Voltage (V)

##### Voltage signal generation

0...20 V

##### Voltage signal measurement

0...50 V

##### Accuracy (of reading + const.)

$\pm 0.015\%$

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Астана (7172)727-132  
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Барнаул (3852)73-04-60  
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<https://sika.nt-rt.ru/> || [skx@nt-rt.ru](mailto:skx@nt-rt.ru)

<b>Type</b>	<b>MC 50.2</b>
<b>Continuity (0/C)</b>	
Continuity measurement	0 / C
Switching threshold „open“	1 k $\Omega$
<b>Frequency and pulse (Hz)</b>	
Frequency and pulse signal generation	0.01 Hz...10 kHz
Frequency and pulse signal measurement	0.01 Hz...20 kHz
Accuracy (of reading + const.)	$\pm 0.005$ %

<b>Functions</b>	
<b>Type</b>	<b>MC 50.2</b>
<b>Generation</b>	
High-speed call values	10 points (flexible)
Linear steps and ramps	✓
User-defined synthesiser values	100
User-defined signal output characteristic	10 points
Editable units	✓
Transmitter function simulation	
<b>Measurement</b>	
Data memory	
Value tables and graphics function	
Offset programming for sensor characteristic	✓
Calibration data files and linearisation points	
User-defined measuring input characteristic	10 points
Editable units	✓
Measured value min. / max.	✓
Averaging function	✓

<b>General data</b>	
<b>Type</b>	<b>MC 50.2</b>
<b>Features</b>	
Sensor connection	4 safety sockets (1 channel) incl. 2 sets with safety instrument leads (4 mm) and alligator clips
Power supply	Rechargeable battery including power adapter, 230 VAC / 12 VDC
PC Interface	mini-USB Type B
Operator guidance	Menu with pull-down windows Separate channels for parallel signal processing Programming and control via PC
Display	Multifunction display, double-LCD, 2 x 6 digit, illuminated
<b>Housing</b>	
Version	ABS plastic with protective cover
Dimensions	110 x 210 x 50 mm (H x W x D)
Weight	Approx. 900 g

# Multifunction process calibrators // for electrical signals

Order code		
Type	Version	Order number
MC 50.2	Accuracy $\pm 0.0175$ % of reading + const.	EME8AOMC050200

Order code	
Accessories	Order number
DAkkS certificate	EKSIMMON00000D
SIKA works calibration certificate	EKSIMMON00000W
Transport case	EME8GKK3100000
Plug connector 4 mm, red	EME8AOSKLS40RT
Plug connector 4 mm, black	EME8AOSKLS40SW

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