

## 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
<b>resistance thermometers (RTD)</b>	
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
<b>Thermocouples (TC)</b>	
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	$\pm 0.3$ $^{\circ}\text{C}$
<b>Current (mA)</b>	
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 $\Omega$
<b>Voltage (V)</b>	
Voltage signal generation	0...20 V
Voltage signal measurement	0...50 V
Accuracy (of reading + const.)	$\pm 0.015$ %

<b>Type</b>	<b>MC 50.2</b>
<b>Continuity (O/C)</b>	
Continuity measurement	O / C
Switching threshold „open“	1 kΩ
<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.)	±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.	EME8A0MC050200

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

