

MC 50.2 and MC 75.2

Type MC 50.2



Type MC 75.2



Type	MC 50.2	MC 75.2
Resistance thermometer (RTD)		
RTD signal generation and measurement	Pt50, Pt100, Pt200, Pt500, Pt1000, Cu10, Cu50, Ni100, Ni120, Ni1000	
Ω generator function	0...4000 Ω	
Ω measurement function	0...4000 Ω	
Accuracy (of rdg. + const.)	$\pm 0.012\%$	
Selectable temperature unit	$^{\circ}\text{C} / ^{\circ}\text{F}$	
Measurement of multi-wire	2 / 3 / 4	
Thermocouples (TC)		
TC signal generation and measurement	J, K, T, R, S, B, N, E, U, L	
mV generator function	0...100 mV	
mV measurement function	0...100 mV	
Accuracy (of rdg. + const.)	$\pm 0.013\%$	
Selectable temperature unit	$^{\circ}\text{C} / ^{\circ}\text{F}$	
Internal comparison point	$\pm 0.3\text{ }^{\circ}\text{C}$	
Current (mA)		
Loop current signal generation	0(4)...24 mA	
Loop current signal measurement	0(4)...50 mA	
Accuracy (of rdg. + const.)	$\pm 0.0175\%$	
Current loop supply	24 V $\pm 10\%$, 22 mA	
HART compatible internal loop resistor	250 Ω	
Voltage (V)		
Voltage signal generation	0...20 V	
Voltage signal measurement	0...50 V	
Accuracy (of rdg. + const.)	$\pm 0.015\%$	
Continuity (0 / C)		
Continuity measurement	0 / C	
Switching threshold "open"	1 k Ω	
Frequency and pulse (Hz)		
Frequency and pulse signal generation	0.01 Hz...10 kHz	
Frequency and pulse signal measurement	0.01 Hz...20 kHz	
Accuracy (of rdg. + const.)	$\pm 0.005\%$	
Pressure signals (bar)		
Pressure measurement with external pressure module		✓
Editable pressure units		✓
Connection via DIN socket		5-pin

Functions	MC 50.2	MC 75.2
Generation		
High-speed call values	10 points (flexible)	10 points (flexible)
Linear steps and ramps	✓	✓
User-defined synthesiser values	100	100
User-defined signal output characteristic	10 points	10 points
Editable units	✓	✓
Transmitter function simulation		✓
Measurement		
Data memory		10.000 values
Value tables and graphics function		✓
Offset programming for sensor characteristic	✓	✓
Calibration data files and linearisation points		5 x 4 values
User-defined measuring input characteristic	10 points	10 points
Editable units	✓	✓
Measured value min. / max.	✓	✓
Averaging function	✓	✓

MC 50.2

- Operator guidance
 - Separate channels for parallel signal processing
 - Menu with pull-down windows
 - Programming and control via PC
 - Graphic display of connection options
 - Configuration files for test adjustments (10)
- Battery supply / Operating time
 - Approx. 25 h with Auto-Power off

MC 75.2

- Operator guidance
 - Separate channels for parallel signal processing
 - Menu with pull-down windows
 - Programming and control via PC
 - Graphic display of connection options
 - Configuration files for test adjustments (10)
 - Test report generation / Calibration routines (10)
- Battery supply / Operating time
 - Approx. 20 h with Auto-Power off
- Software (optional)



Further information on pressure measurement with the MC 75 2 simulator is provided on the next page.