

Multifunction simulators

EC 10 and EC 25



Type	EC 10	EC 25
Resistance thermometer (RTD)		
RTD signal generation and measurement	Pt100, Pt200, Pt500, Pt1000, Cu10, Cu50	
Ω -generator function	0...4000 Ω	0...40 000 Ω
Ω -measurement function	0...5500 Ω	0...5500 Ω
Accuracy (rdg. + const.)	± 0.05 %	
Selectable temperature unit	$^{\circ}\text{C} / ^{\circ}\text{F}$	
Measurement of multi-wire connections	2 / 3 / 4	2 / 3
Thermocouples (TC)		
TC signal generation and measurement	J, K, T, R, S, B, N, E, U, L	J, K, T, R, S, B, N, E
mV generator function	-100...1100 mV	-100...110 mV
mV measurement function	-50...550 mV	
Accuracy (rdg. + const.)	± 0.02 %	
Selectable temperature unit	$^{\circ}\text{C} / ^{\circ}\text{F}$	
Internal comparison point	± 0.5 $^{\circ}\text{C}$	
Current (mA)		
Loop current signal generation		0...22 mA
Loop current signal measurement		-5...55 mA
Accuracy (of rdg. + const.)		± 0.02 %
Current loop supply		24 V ± 10 %, 22 mA
Voltage (V)		
Voltage signal generation		-1...11 V
Voltage signal measurement		-5...55 V
Accuracy (of rdg. + const.)		± 0.02 %
Continuity (0 / C)		
Continuity measurement	0 / C	
Switching threshold "open"	0.5 k Ω	
Frequency and pulse (Hz)		
Frequency and pulse signal generation		3 Hz...110 kHz
Frequency and pulse signal measurement		3 Hz...50 kHz
Accuracy (of rdg. + const.)		± 0.005 %

Functions	EC 10	EC 25
Generation		
High-speed call values		7 points (fix) in 25 % steps
Linear steps and ramps		✓
Output zero	✓	✓
Transmitter function simulation		✓
Measurement		
Measured value hold function	✓	✓
Averaging function	✓	✓
Room temperature display	✓	✓

EC 10

- Operator guidance
Keypad
- Battery supply / Operating time
Approx. 25 h with Auto-Power off

EC 25

- Operator guidance
Keypad
Separate channels for parallel signal processing
- Battery supply / Operating time
Approx. 20 h with Auto-Power off