

Multifunction process calibrators // EC 15 // EC 25

for electrical signals



EC 15



EC 25



Highlights

- Generation of RTD-, TC- mA- and V signals
- Frequency and pulse simulation (EC25)
- For mobile on-site calibration

Technical data

Type	EC 15	EC 25
Resistance thermometers (RTD)		
Generation and measurement of RTD signals	Pt100, Pt200, Pt500, Pt1000, Cu50	
Ω-generator function	0...4000 Ω	0...40 000 Ω
Ω-measurement function	0...5500 Ω	0...5500 Ω
Accuracy (of reading + const.)	±0.05 %	±0.02 %
Selectable temperature unit	°C / °F	
Measurement of multi-wire connections	2 / 3 / 4	2 / 3
Thermocouples (TC)		
Generation and measurement of TC signals	R, S, K, E, J, T, N, B, A, C, D	J, K, T, R, S, B, N, E
mV-generator function	-100...1100 mV	-100...110 mV
mV-measurement function	-50...550 mV	
Accuracy (of reading + const.)	±0.05 %	
Selectable temperature unit	°C / °F	
Internal comparison point	±0.5 °C	
Current (mA)		
Loop current signal generation		0...22 mA
Loop current signal measurement		-5...55 mA
Accuracy (of reading + const.)		±0.02 %
Current loop supply		24 V ±10 %, 22 mA
Voltage (V)		
Voltage signal generation	-1...11 V	-1...11 V
Voltage signal measurement	-5...55 V	-5...55 V
Accuracy (of reading + const.)	±0.05 %	±0.02 %

Technical data

Technische Daten		
Type	EC 15	EC 25
Continuity (O/C)		
Continuity measurement	0 / C	
Switching threshold „open“	0.5 kΩ	
Frequency and pulse (Hz)		
Frequency and pulse signal generation		3 Hz...110 kHz
Frequency and pulse signal measurement		3 Hz...50 kHz
Accuracy (of reading + const.)		±0.005 %

Functions		
Type	EC 15	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	✓	✓

General data		
Type	EC 15	EC 25
Features		
Sensor connection	4 safety sockets (1 channel) incl. 2 sets with safety instrument leads (4 mm) and alligator clips	
Power supply	4 x 1.5 V AAA-battery Operating time approx. 25 h with auto-power-off	4 x 1.5 V AAA-battery Operating time approx. 20 h with auto-power-off
PC Interface		
Operator guidance	Keypad	
Display	Multifunction display LCD, 5½ digit, illuminated	Multifunction display double-LCD, 5½ digit, illuminated
Housing		
Version	ABS plastic with protective cover	
Dimensions	210 x 100 x 40 mm (H x W x D)	
Weight	Approx. 550 g	

Article numbers

Order code		
Type	Version	Order number
EC 15	Accuracy ± 0.05 % of reading + const.	EME8VCEC015000
EC 25	Accuracy ± 0.02 % of reading + const.	EME8VCEC025000

Order code	
Accessories	Order number
DAkkS certificate	EKSIMMULTI000D
SIKA works calibration certificate	EKSIMMULTI000W
Transport case	EME8GKK3100000
Plug connector 4 mm, red	EME8AOSKLS40RT
Plug connector 4 mm, black	EME8AOSKLS40SW