

Process calibrators // EC RTD.2 // UC RTD.2

for resistance thermometers



EC RTD.2



UC RTD.2



Highlights

- Precise simulation and measurement of RTD signals
- Simple to use and robust housing
- For mobile on-site calibration

Technical data

Type	EC RTD.2	UC RTD.2
Resistance thermometers (RTD)		
Generation and measurement of RTD signals	Pt100, Cu50	Pt50, Pt100, Pt200, Pt500, Pt1000, Cu10, Cu50, Ni100, Ni120, Ni1000
Ω-generator function	0...400 Ω	0...3500 Ω
Ω-measurement function	0...450 Ω	0...3600 Ω
Accuracy (of reading + const.)	±0.05 %	±0.012 %
Selectable temperature unit	°C / °F	°C / °F
Measurement of multi-wire connections	2	2 / 3 / 4

Technical data

Functions		
Type	EC RTD.2	UC RTD.2
Generation		
High-speed call values		10 points (flexible)
Linear steps and ramps		✓
User-defined synthesiser values		10
User-defined signal output characteristic		10 points
Editable units		✓
Output zero	✓	
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
Editable units		✓
Measured value min. / max.		✓
Measured value hold function		✓
Averaging function		✓

General data		
Type	EC RTD.2	UC RTD.2
Features		
Sensor connection	4 safety sockets (1 channel) incl. 2 sets with safety instrument leads (4 mm) and alligator clips	4 safety sockets (1 channel) incl. 2 sets with safety instrument leads (4 mm) and alligator clips (optional)
Power supply	1 x 9 V monobloc battery Operating time approx. 25 h with auto-power-off	4 x 1.5 V AA-battery Operating time approx. 40 h or rechargeable battery including power adapter 230 VAC / 12 VDC (optional)
PC Interface		mini-USB Type B
Operator guidance	Keypad	Menu with pull-down windows, programming and control via PC
Display	Multifunction display LCD, 5½ digit	Multifunction display LCD, 6 digit
Housing		
Version	ABS plastic with protective cover	
Dimensions	200 x 100 x 40 mm (H x W x D)	160 x 85 x 45 mm (H x W x D)
Weight	Approx. 550 g	Approx. 300 g

Article numbers

Order code		
Type	Version	Order number
EC RTD.2	Accuracy ± 0.05 % of reading + const.	EME8VCECDRTD020
UC RTD.2	Accuracy ± 0.012 % of reading + const.	EME8AOUCRTD020

Order code	
Accessories	Order number
DAkKS certificate	EKSIMMONO0000D
SIKA works calibration certificate	EKSIMMONO0000W
Transport case	EME8GKK310000
Plug connector 4 mm, red	EME8AOSKLS40RT
Plug connector 4 mm, black	EME8AOSKLS40SW
Software Datacal for UC RTD.2	EME8AOMCSWDCKA
Battery and charger for UC series	EME8A0AN601100