

Process calibrators // EC TC.2 // UC TC.2

for thermocouples



EC TC.2



UC TC.2



Highlights

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

Technical data

Type	EC TC.2	UC TC.2
Thermoelemente (TC)		
Generation and measurement of TC signals	J, K, T, R, S, B, N, E	J, K, T, R, S, B, N, E, U, L, C
mV-generator function	-10...1100 mV	-9,5...80 mV
mV-measurement function	-10...110 mV	-10...100 mV
Accuracy (of reading + const.)	±0.05 %	±0.02 %
Selectable temperature unit	°C / °F	°C / °F
Internal comparison point	±0.5 °C	±0.3 °C

Technical data

Functions		
Type	EC TC.2	UC TC.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		✓
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 TC	UC TC.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 TC.2	Accuracy ± 0.05 % of reading + const.	EME8VCEC0TC020
UC TC.2	Accuracy ± 0.02 % of reading + const.	EME8A0UC0TC020

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
Software Datacal for UC TC.2	EME8A0MCSWDCKA
Battery and charger for UC series	EME8A0AN601100