

Family Datasheet

ECO 130 / ECO 130.2 Thermocouple – Quick Response Thermometer Type K

- Modern and functional housing
- Ideal for puncture and surface measurements
- Alarm function with buzzer (ECO 130.2)
- 3-line display / overhead display at the push of a button
- Backlight
- First-class thermocouple compensation
- Adjustable, optionally traceable with calibration certificates
- Robust, long battery life
- Hold-function to freeze measured values
- Min/Max function for minimum and maximum recorded measured values
- Made in Germany



DESCRIPTION

In the development of the new ECO 130 series, the focus was deliberately on the essential elements of measurement technology - the sophisticated thermocouple reference junction is the center of attention - for the best final accuracy - here, despite the fair overall price in a class comparison, no savings were made!

Precision, speed and reliability, packed in a compact and waterproof housing (exception: probe connection) makes the device a reliable partner for professional users and demanding hobbyists, Made in Germany.

Due to the first-class thermocouple compensation ("virtual ice point") with high-quality reference temperature measurement and sophisticated design, they achieve unrivaled measurement reliability in this class.

The simple alarm function on the ECO 130.2 makes it easier to monitor the temperature "in parallel" while doing other things at the same time.



ECO 130 front



ECO 130.2 front

Display

Thanks to the backlight, the three-line LCD display offers ergonomic wide-angle visibility - by day and by night.

The HOLD function enables the display values to be frozen.

Power supply

2 powerful AA batteries, the energy-saving design and the configurable automatic switch-off function ensure long operation.

Configurable LCD backlight for further energy saving options.

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TECHNICAL DATA

Measurement specifications

	ECO 130	ECO 130.2
Inputs	Socket for miniature flat-pin plug	Two sockets for miniature flat-pin plug
Measuring range	Temperature -65.0 ... 1200.0 °C / -85.0 ... 2192 °F	Temperature -65.0 ... 1200.0 °C / -85.0 ... 2192 °F
Accuracy (nominal temperature)	Device: $\pm 0.1\%$ v.MW. $\pm 1\text{ °C}$ Reference junction: $\pm 0.3\text{ °C}$	
Max. cable length	3 m	

General specifications

Display	3-line with battery status indicator, Backlight, protected by shatterproof screen, overhead display at the push of a button
Power supply	2 x AA Alkaline batteries (included)
Power consumption	<1 mA
Battery life	> 3000 h typ. Continuous operation
Automatic Power-Off	Yes, configurable by the user
Operating conditions	-20 to 50 °C; 0 to 85 % r.h. (non-condensing)
Storage temperature	-25...65 °C (without batteries)
Protection class	IP40
Dimensions	108 x 54 x 28 mm (H x W x D)
Weight	approx. 125 g
Housing	Impact resistant ABS, Polyester (front panel)

Scope of delivery

- Handheld without sensor (depending on set, please refer to “ordering code”)
- Test protocol
- 2xAA batteries
- Manual

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ORDERING CODE

ECO130		
Thermocouple quick response thermometer (formerly G 1200)		
1	Probe	
-		Device alone, without temperature probe
-GTF300		With wire probe GTF 300, Type K
-GTE130		With insertion probe GTE 130 OK (no cable), Ø1.5 mm, Gourmet-Set
-T3		With immersion probe GF 1TK-T3, Ø3 mm, handle short time 250°C, permanent 230°C, 1 m silicon cable 200°C
-E3		With insertion probe GF 1TK-E3, Ø3 mm, handle short time 250°C, permanent 230°C, 1 m silicon cable 200°C
-E1.5		With insertion probe GF 1TK-E1.5, Ø1.5 mm, handle short time 250°C, permanent 230°C, 1 m silicon cable 200°C
-GOF400VE		With surface probe GOF 400 VE max 400°C, Ø15mm, 1 m silicon cable 200°C
-AXS15		With surface probe AX131-S15-HS, Type K, Ø15 mm
-AXS8		With surface probe AX131-S8-HS, Type K, Ø8 mm
2	Set-Option	
-		Device, battery, manual
-SET		Device. batteries, manual, in case GKK 1000
-WPT3		Device, batteries, manual, in case GKK 1000, ISO calibration WPT3-20 / 0 / 70 °C only for short probes (e.g. GF1T)
-WPT3-1100		Device, batteries, manual, in case GKK 1100, ISO calibration WPT3-20 / 0 / 70 °C
ECO130.2		
quick response 2 channel-alarm-thermometer (formerly G 1202)		
1	Probe	
-		Device alone, without temperature probe
-GTF300		With wire probes GTF 300, Type K
-AXS15		With surface probe AX131-S15-HS, Type K, Ø15 mm
-AXS8		With surface probe AX131-S8-HS, Type K, Ø8 mm
2	Set-Option	
		Device, battery, manual
-SET		Device. batteries, manual, in case GKK 1000

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Standard articles

ECO130	Device alone, without temperature probe	Art.-No. 486708
ECO130-E1.5-SET	with insertion probe, Ø1.5 mm, in case GKK 1000	Art.-No. 487043
ECO130-E3-SET	with insertion probe, Ø3 mm, in case GKK 1000	Art.-No. 487045
ECO130-T3-WPT3	with immersion probe, Ø3 mm, in case GKK 1000, ISO calibration WPT3 -20 / 0 / 70 °C	Art.-No. 487053
ECO130-GTF300	with wire probe GTF 300	Art.-No. 487051
ECO130.2	Device alone, without temperature probe	Art.-No. 486732
ECO130.2-GTF300	with wire probe GTF 300	Art.-No. 487054

Accessories

Spare parts:

GB-AA-2	Spare batteries 2x AA	Art.-No. 600704
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Probes:

GTE 130 OK	Insertion probe without cable, Ø1.5mm	Art.-No. 601483
GF 1TK-T3	Compact immersion probe, silicone handle, Ø3 mm	Art.-No. 609695
GF 1TK-E3	Compact insertion probe, silicone handle, Ø3 mm	Art.-No. 609697
GF 1TK-E1.5	Compact insertion probe, silicone handle, Ø1.5mm	Art.-No. 609699
GF 1TK-L3	Compact air probe, silicone handle, Ø3 mm	Art.-No. 611299
GTF 300	Wire probe for measurements in less than a second	Art.-No. 600072
GTF 40K-620	T-handle insertion probe for bulk material, soil, compost	Art.-No. 610829
AX131-S15-HS-L01-S-MF	Type K surface probe with spring band, fast, large handle, Ø15 mm, not potential-free, length 130 mm, head straight, 1 m silicone cable, Mini flat pin plug	Art.-No. 486854
AX131-S8-HS-L01-S-MF	Type K surface probe with coil spring, compact, large handle, Ø8 mm, not potential-free, length 130 mm, ceramic head straight, 1 m silicone cable, Mini flat pin plug	Art.-No. 486856

Additional accessories:

G1000-Cover	Rubber protection cover black, incl. 2 neodym magnets	Art.-No. 483958
ST-G1000	Protection bag with belt clip	Art.-No. 611373
GCLIP1000	Metal belt clip self-adhesive	Art.-No. 475820
G1000-BASE	G 1000 combined table base/wall suspension	Art.-No. 481885
GKK1000	Carrying case	Art.-No. 611603

For further articles, please visit Senseca website.