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.

Senseca Germany GmbH | Hans Sachs-Str. 26 | 93128 Regenstauf | Germany | Phone: +49 9402 9383-0 | Mail: info@senseca.com | www.senseca.com

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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, differential
Accuracy (nominal temperature)	Device: ±0.1 % v.MW. ±1 °C Reference junction: ±0.3 °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
	-AXS15	With surface probe AX131-S15-HS, Type K, Ø15 mm
2	**Set-Option**	
	-	Device, battery, manual
	-SET	Device. batteries, manual, in case GKK 1000 only for short probes (e.g. GF1T)
	-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 only for short probes (e.g. GF1T)

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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 2 wire probes GTF 300	**Art no. 487054**

ACCESSORIES

Spare parts:

GB-AA-2	Spare batteries 2x AA	**Art no. 600704**

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 neodymium 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 for GF1/GF2 probes with max. stem 100 mm	**Art no. 611603**
GKK1100	Carrying case for AX/DX probes with max. stem 180 mm	**Art no. 601060**

For further articles, please visit Senseca website.

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