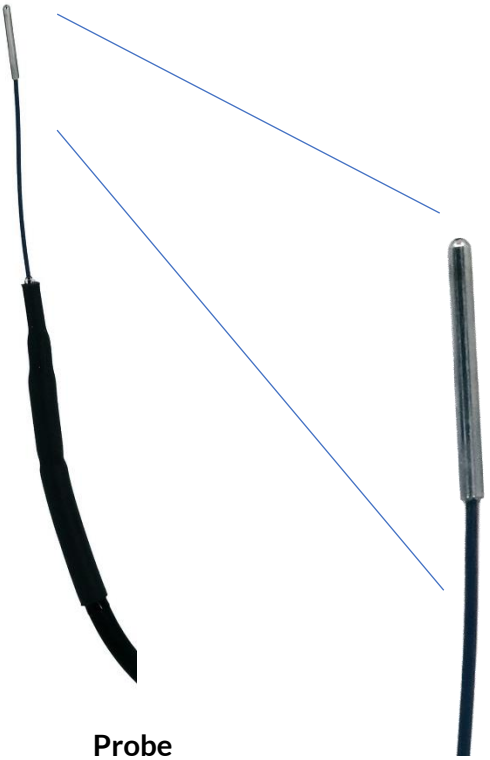
Product Datasheet

ECO 141 Waterproof high-resolution thermometer, special probe Ø1.1 mm



Probe

Probe detail:
Ø 1.1 mm

- Waterproof (IP65 / IP67)
- Highly precise adjusted at 37 °C e.g. for reference of medical products like incubators e.g. at IVF applications
- High resolution 0.01 °C and precision
- Miniaturized precision probe Ø1.1 mm
- 3-line display / overhead display at the push of a button
- Backlight
- 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

ECO 141 Waterproof high-resolution thermometer, special probe Ø1.1 mm

DESCRIPTION

The ECO 141 is a high-precision reference thermometer for checking medical technology products e.g. like incubators, where the highest accuracy is required.
The miniaturized probe is designed to be inserted in appropriate reference bores and to measure on site quickly and without distortion.
Precision, speed and reliability, packed in a compact and waterproof housing makes the device a reliable partner for professional users. Made in Germany.

Display

Thanks to the backlight, the three-line LCD display offers ergonomic wide-angle visibility - by day and 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 additional energy-saving options.

TECHNICAL SPECIFICATIONS

Measuring specifications

Inputs	NTC 30K, high precision
Measuring range	0.00 ... 80.00 °C
Accuracy (nominal temperature 25°C)	at 37°C better ± 0.05 K ± 1 digit 0 ... 80°C: ±0.1 K ± 1 digit
Resolution	0.01 °C
Probe	Ø 1.1 mm, length 12 mm intermediate cable Teflon 27 mm, Ø < 1 mm, intermediate sleeve: Ø4 x 45mm
Cable	1.2 m PVC, Ø 3.5 mm, fixed connection

General specifications

Display	3 lines with battery status indicator, Backlight, shatterproof screen, overhead display at the push of a button
Power supply	2 x AA Alkaline batteries (included)
Power consumption	ca. 0.4 mA, ca. 2 mA with backlight
Battery life	ca 5000 h typ. continuous operation
Automatic switch-off	Yes, configurable by the user
Operating conditions	-20 to 50 °C; 0 to 95 % r.n. (non-condensed)
Storage temperature	-20...70 °C (without batteries)
Protection class	IP65 / IP67
Dimensions	108 x 54 x 28 mm (H x W x D)
Weight	approx. 145 g (with battery)
Housing material	Impact resistant ABS, polyester (front panel)

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Scope of delivery

- Handheld without sensor (depending on set, please refer to „ordering code“)
- Test protocol, optional ISO 9001 calibration certificate
- 2x AA batteries
- Manual

ORDERING CODE

ECO141		
Waterproof high-resolution thermometer, special probe Ø1.1 mm (formerly G 1781)		
1	**Set-Option**	
		Device only
	-GKK1000	Device in case GKK 1000
2	**Calibration**	
	-WPT3B	Temperature factory calibration, test points: 0 °C, 37 °C, 70 °C, not DAkkS accredited

Standard-articles

ECO141	Device only, with Micro-Probe Ø1.1 mm	**Art no. 486770**
ECO141-GKK1000-WPT3B	Device in case GKK 1000, ISO-calibration WPT3 -0 °C, 37 °C, 70 °C	**Art no. 487101**

Accessories

G1000-Cover	ECO-line/G 1000 rubber protection cover, 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	ECO-line/G 1000 combined table base / wall suspension	**Art no.: 481885**
GKK1000	Carrying case	**Art no.: 611603**

For further articles, please visit Senseca website.

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