

ECO 1xx-GOURMET



Blackline Thermometers

– made for demanding work environments



- Shock-resistant and black: for use when cooking, baking and barbecuing, or in dirty environments in industry and craft sector
- Removable rubber protective case with 2 built-in magnets
- Durable, long battery life
- Fast & accurate measurements
- Pt1000 (2-wire) & Type K variants
- Zero and slope correction
- Min/Max/Hold, Auto Power-Off Function

DESCRIPTION

The ECO 1xx-GOURMET series comprises specialized, rugged handheld thermometers for cooking, baking, and barbecue - designed for precise, fast, and reliable food temperature measurements in professional and demanding applications.

They also meet the requirements of dirty working environments in industry and the craft sector perfectly.

Depending on the model, Pt1000 solutions are available for maximum accuracy (ECO 121-GOURMET with a permanently attached Pt1000 probe or ECO 120-GOURMET with interchangeable Pt1000 insertion probes) or thermocouple devices for the fastest possible measurements (ECO 130-GOURMET / ECO 130.2-GOURMET as a 2-channel version). For practical use, the devices are equipped with a removable rubber protective cover featuring two strong magnets and a 3-line backlit display. The devices offer features such as Min/Max/Hold, configurable auto-power-off, and zero and slope correction. Depending on the model, they are rated IP67 (ECO 12x) or IP54 (ECO 130); power is supplied by 2× AA batteries.

Overview of variants:

- **ECO 120-GOURMET:** Excellent flexibility for interchangeable Pt1000 insertion probes
- **ECO 121-GOURMET:** Maximum accuracy thanks to attached Pt1000 probes
- **ECO 130-GOURMET:** Fastest possible measurement, interchangeable thermocouple probes
- **ECO 130.2-GOURMET:** Fastest possible measurement, 2 channels, interchangeable thermocouple probes



Included rubber protective case G1000-Cover
with 2 strong neodymium magnets

TECHNICAL SPECIFICATIONS

	ECO 120-GOURMET	ECO 121-GOURMET	ECO 130[.2]-GOURMET
Measuring input Type Number	Pt1000 (2-wire) BNC 1	Fixed probe 1	Thermocouple Type K Miniature flat plug ECO130-GOURMET: 1 ECO130.2-GOURMET: 2
Measuring range	-200 ... +450 °C (observe permissible range of probe)	-70 ... +250 °C	-65 ... +1200 °C (observe permissible range of probe)
Resolution	0.1 °C		
Accuracy	-20 ... +100 °C: $\pm 0.1 \text{ K} \pm 1 \text{ digit}$ Other range: $\pm 0.2 \%$ of value $\pm 2 \text{ digits}$ (plus probe inaccuracy acc. to class)		Device: $\pm 0.1 \%$ v.MW. $\pm 1 \text{ °C}$ Reference junction: $\pm 0.3 \text{ °C}$ (plus probe inaccuracy acc. to class)
Cable length	max. 3 m	1 m	max. 3 m
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	approx. 0.4 mA, approx. 2 mA with backlight		<1 mA
Battery life	> 5000 h typ. continuous operation		> 3000 h typ. continuous operation
Automatic Power-Off	Yes, user configurable		
Operating conditions instrument	-20 ... +50 °C 0 ... 95 % r.h. (non-condensing), up to 100% r.F. for short periods		0 ... 85 % r.h. (non- condensing)
Storage temperature	-20 ... +70 °C (without batteries)		
Probe variant		Insertion $L_{\text{tube}} = 100 \text{ mm}$ I1.5: $\varnothing 1.5 \text{ mm}$ I3: $\varnothing 3 \text{ mm}$	
Probe cable and handle		Silicon, short time 250°C, permanent 230°C	
Dimensions	108 x 54 x 28 mm		
Weight (incl. case)	approx. 160 g (without pobe)		approx. 155 g
Protection class	IP65 / 67 (only with waterproof probes in the connected state for devices with BNC connection)		IP54

ORDER CODES

Waterproof gourmet alarm thermometer for Pt1000 probes with BNC connector

ECO120-GOURMET - 1 - 2

1	Probe	
		without temperature probe
	E3	with robust insertion probe Ø3 mm GF1T-E3-AA-BNC
	E1.5	with extra thin insertion probe Ø1.5 mm GF1T-E1.5-A-BNC
2	GF2T1.5	with fast penetration probe Ø1.5 mm, without cable, class A, GF2T-E1.5-A
	Set-Option	
		Device in carton box, magnetic rubber protection cover G1000-Cover, batteries, manual, test protocol
	GKK1000	Device in case GKK 1000, magnetic rubber protection cover G1000-Cover, batteries, manual, test protocol

Waterproof gourmet alarm thermometer with permanently attached probe

ECO121-GOURMET - 1 - 2

1	Probe (permanently connected)	
	I3	With robust insertion probe, GF1T, Ø3 mm, handle and cable shorttime 250°C, permanent 230°C
	I1.5	With fast penetration probe GF1T, Ø1.5 mm, handle and cable shorttime 250°C, permanent 230°C
2	Set-Option	
		Device in carton box, magnetic rubber protection cover G1000-Cover, batteries, manual, test protocol
	GKK1000	Device in case GKK 1000, magnetic rubber protection cover G1000-Cover, batteries, manual, test protocol

1-Channel Thermocouple Gourmet Thermometer / 2-Channel Thermocouple Gourmet Thermometer

ECO130-GOURMET - 1 - 2 / ECO130.2-GOURMET - 1 - 2

1	Probe	
		without temperature probe
	GTE130	with insertion probe GTE 130 OK (no cable, max 400°C), Ø1.5 mm
	E3	with insertion probe GF 1TK-E3, Ø3 mm, max 550°C, handle short time 250°C, 1 m silicon cable 200°C
	E1.5	with insertion probe GF 1TK-E1.5, Ø1.5 mm, max 550°C, handle short time 250°C, 1 m silicon cable 200°C
2	Set-Option	
		Device in carton box, magnetic rubber protection cover G1000-Cover, batteries, manual, test protocol
	GKK1000	Device in case GKK 1000, magnetic rubber protection cover G1000-Cover, batteries, manual, test protocol

STANDARD ARTICLES

ECO120-GOURMET	Waterproof gourmet alarm thermometer for interchangeable Pt1000 probes with BNC connectors	Art. No. 489728
ECO121-GOURMET-I1.5	Waterproof gourmet alarm thermometer with a permanently attached Ø 1.5 mm probe (GF1T) and a 1 m silicone cable	Art. No. 489726
ECO121-GOURMET-I3	Waterproof gourmet alarm thermometer with a permanently attached Ø 3 mm probe (GF1T) and a 1 m silicone cable	Art. No. 489727
ECO130-GOURMET	Type K Thermocouple 1-Channel Gourmet Thermometer	Art. No. 489731
ECO130.2GOURMET	Type K Thermocouple 2-Channel Gourmet Thermometer	Art. No. 489732

Each unit is shipped in a box and includes a magnetic G1000 rubber protective cover, batteries, user manual, and a test report

SPARE PARTS & ACCESSORIES

GB-AA-2	Spare batteries 2x AA	Art. No. 600704
G1000-Cover	ECO-Line/G 1000 rubber protection cover, incl. 2 neodymium magnets	Art. No. 483958
ST-G1000	Protective case 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

Suitable probes for ECO 120-GOURMET (selection)

GF2T-E1.5-B-BNC	Pt1000 insertion probe, Class B without cable, Ø1.5mm	Art. No. 477842
GF1T-E1.5-B-BNC	Pt1000 insertion probe, Class B, 100 mm, Ø 1.5 mm	Art. No. 609645
GF1T-E3-B-BNC	Pt1000 insertion probe, Class B, 100 mm, Ø 3 mm	Art. No. 609639
GF1T-T3-B-BNC	Pt1000 immersion probe, Class B, 100 mm, Ø 3 mm	Art. No. 609549
GF1T-T3-AA-BNC	Pt1000 immersion probe, Class AA, 100 mm, Ø 3 mm	Art. No. 609550
GF3T-E3-B-BNC	Pt1000 insertion barbecue probe max. 400 °C	Art. No. 611301

Suitable probes for the ECO 130[.2]-GOURMET (selection)

GTE130OK	Insertion Type K probe without cable, Ø1.5mm	Art. No. 601483
GF1TK-T3	Compact Type K immersion probe, silicone handle, Ø3 mm	Art. No. 609695
GF1TK-E3	Compact Type K insertion probe, silicone handle, Ø3 mm	Art. No. 609697
GF1TK-E1.5	Compact Type K insertion probe, silicone handle, Ø1.5mm	Art. No. 609699
GF3TK-E3	Type K barbecue-insertion -probe max. 550 °C, Ø3 mm	Art. No. 490603
GF1TK-L3	Compact Type K air probe, silicone handle, Ø3 mm	Art. No. 611299
GTF300-L01-00	Type K wire probe for measurements in fractions of a second	Art. No. 600072