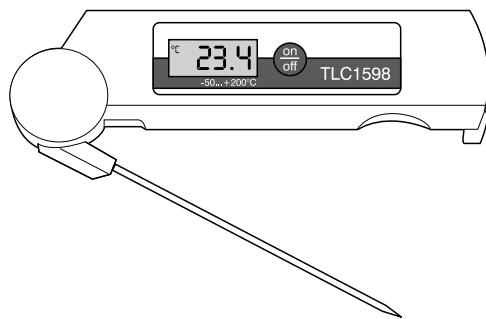


926.002 **DIGITAL THERMOMETER** - MANUAL



®



General purpose thermometer
TLC 1598

Please read this manual carefully before operating your new general purpose thermometer.

The operating manual introduces you with clear and simple instructions to the handling of the thermometer.

Information that are useful and important for understanding the function, are highlighted in the instructions text.

On behalf of a safe handling of the thermometer, follow the safety notes marked with the character .

Safety notes



Caution when measuring high temperatures! Do not touch the temperature sensor with bare hands immediately after measuring! Risk of burn injury! As a basic principle, do not put the thermometer in the hot zone during measuring. Risk of explosion of the lithium battery!



Do not use the thermometer in explosion endangered areas!

Contents list

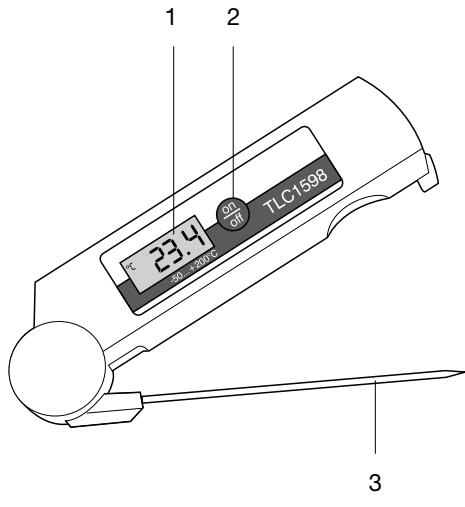
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1 Description

The general purpose thermometer is a handy measuring instrument operated with a lithium battery, used to measure the temperature of air, liquids and plastic material (meat, fruit, etc.)

The electronics are controlled by a micro-processor. This ensures a high measuring precision and linearity over the complete measuring range.

The thermometer is equipped with a stainless steel tilting sensor needle.



- 1 display (LCD)
- 2 button ON/OFF
- 3 tilting sensor needle

2 Extent of supply

Check contents of the packing for completeness and integrity. If you discover any damage or have any reason for a complaint, please contact your distributor or:

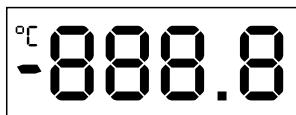
ebro Electronic GmbH & Co. KG
Peringerstr. 10
85055 Ingolstadt
Tel.: (0841) 9 54 78-0
Fax: (0841) 9 54 78 80
E-mail: info@ebro.de
Internet: <http://www.ebro.de>

Parts list:

- thermometer
- calibration certificate
- for accessories see appendix I

3 Operation

3.1 Switching on the thermometer



To switch the thermometer on, press the "ON/OFF" button for at least one second.



The device will perform a system test during which all segments are visible in the display.



After this the measuring channel is tested. The display shows "38.8".

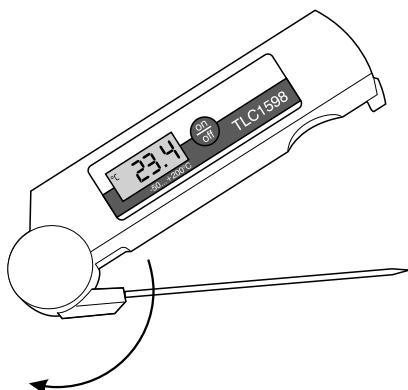
Afterwards the first measured value will appear in °C.

If an error message is displayed, refer to chapter 4 "Troubleshooting" on page 10.

3.2 Temperature measuring

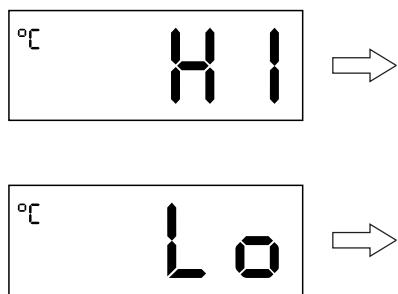
For conserving battery power, the thermometer will switch off automatically after 2 hours of operation.

Tilt the sensor needle out and place it at the desired position.



Use the probe only as directed, in order to avoid damages and faulty measurements.

When the measurement is finished, switch the device off by pressing "ON/OFF".



4 Troubleshooting

Possible cause	Remedy
Measuring range exceeded	Consider measuring range
Probe defective	Call service
Below measuring range	Consider measuring range
Short circuit of the probe	Call service

5 Calibration services

In order to guarantee a high measuring precision, the thermometer must be calibrated every year. Therefore **ebro Electronic GmbH & Co. KG** offers a calibration service.

- Fill in the enclosed service card.
- After one year we will recall your thermometer for calibration.
- The calibrated thermometer will be returned within one week.

Appendix

I Accessories

Description	Identifier
Artificial leather case	EB 5 L
Plastic box, blue	EB 1598

II Technical data

Measuring range	-50 to +200 °C
Sensor	Pt 1000
Operating temperature .	0 to +50 °C
Storage temperature	-10 to +60 °C
Resolution	0,1 °C
Measuring precision	±0,2 °C ±1 Digit
Display test	38,8 ± 0,1
Thermal time constant T ₉₉ :	
moved water	approx. 8 s
Battery	Lithium 3,6 V/ 0,4 Ah
Life time of battery	typically 4 years
Power off	automatically after 2 hours
Dimensions (L x W x H)	
Housing	158 x 44 x 20 mm
Sensor needle	106 mm, Ø 3 mm
Housing material	ABS
Safety class	IP 54
Weight	approx. 70 g

Subject to technical change



Konformitätserklärung

Conformity declaration

Déclaration de conformité

ebro Electronic GmbH & Co. KG
Peringerstraße 10
D-85055 Ingolstadt

erklärt in alleiniger Verantwortung, dass das Produkt
declares in sole responsibility that the product
déclare sous sa seule responsabilité que le produit

Geräteart:	Thermometer	Typ:	
Type of device:	Thermometer	Type:	TLC 1598
Type d'appareil:	Thermomètre	Modèle:	

mit den folgenden Normen oder normativen Dokumenten übereinstimmt:

corresponds with the following standards or normative documents:
est conforme aux normes ou documents normatifs suivants:

_____ EN 55011/1991	Störaussendung <i>Interference emission</i> Émissions parasites
_____ EN 50082-1/1992	Störfestigkeit <i>Interference immunity</i> Compatibilité électromagnétique
_____ IEC 1000-4-2	ESD/ESD/Décharge électrostatique

Prüfstellen:
ELEKLUFT
EMV-Zentrum
Inspected by:
Organisme de contrôle: Ludwig-Bölkow-Allee
85521 Ottobrunn
und/and/et
ebro Electronic GmbH & Co. KG

Ingolstadt, 23.03.1998

Wolfgang Klün
Geschäftsführer
Managing director
directeur gérant

-ebro-[®]

