

Fold-Back Thermometers

On the next pages you will find various fold-back thermometers with and without infrared measurement technology. The penetration probe is foldable for a secure and convenient storage of the measurement device.



Applications

- Core temperature measurement
- Surface temperature measurement with infrared
- Temperature measurement of fluids
- Environmental temperature measurement
- Process monitoring

Find your perfect fold-back thermometer:

Fold-Back Thermometers	Measurement range	High accuracy	Probe type	Channels	Fast response time	Waterproof housing
TLC 700 Basic Fold-Back Thermometer	-40 °C ... +250 °C		NTC	1		x
TLC 730 Dual Infrared/ Fold-Back Thermometer	-50 °C ... +350 °C		Infrared and thermocouple type K	2	x (Infrared)	x
TLC 1598 Precision Fold-Back Thermometer	-50 °C ... +200 °C	x	Pt 1000	1		

TLC 700 Basic Fold-Back Thermometer with foldable penetration probe



Technical Data

Temperature measurement range	-30 °C ... +220 °C (-22 °F ... +428 °F)
Accuracy	±0.5 °C (at -30 °C ... +100 °C), ±1.0 °C for the remaining measurement range
Resolution	0.1 °C
Operating temperature	0 °C ... +50 °C
Battery	Lithium button cell (CR 2032)
Dimensions (L x W x H)	118 x 33 x 15 mm, needle length = 70 mm
Certificate	Factory calibration certificate

- Small size easily fits in a pocket
- Waterproof housing (IP 65)

Type	Description	Part No.
TLC 700	Folding Thermometer	1340-5734

TLC 730 Dual Infrared/Fold-Back Thermometer with foldable penetration probe and infrared sensor



The device has been certified together with the EB 4401 food inspection case (please see page 139).

Technical Data

Measurement range	-50 °C ... +350 °C (-58 °F ... 662 °F)
Accuracy infrared	±4 °C at -50 °C ... -30.1 °C (±7.2 °F at -58 °F ... -22 °F) ±2.5 °C at -30 °C ... -18.1 °C (±4.5 °F at -22 °F ... -0.4 °F) ±1.5 °C at -18 °C ... -0.1 °C (±2.7 °F at -0.4 °F ... 32 °F) ±1.0 °C at 0 °C ... +65 °C (±1.8 °F at 32 °F ... 149 °F) ±2.0 °C or 2 % at +65 °C ... +350 °C (±3.6 °F at 149 °F ... 662 °F)
Accuracy penetration probe	±0.5 °C at -18 °C ... +120 °C (±0.9 °F at -0.4 °F ... 248 °F) ±1 °C (±2 °F) or 1 % for the remaining measurement range (whichever is larger)
Resolution	0.1 °C / 0.2 °F
Sensor	Thermocouple type K
Operating temperature	-25 °C ... +50 °C (-13 °F ... 122 °F)
Storage temperature	-40 °C ... +70 °C (-40 °F ... 158 °F)
Battery	2 x AAA (Micro), user replaceable
Battery lifetime	Approximately 15 h of continuous use
Dimensions (L x W x H)	48 x 24 x 172 mm (without probe)
Housing material	ABS
Weight	Approximately 140 g
Protection class	IP 55
Automatic deactivation	Automatically after 15 seconds, deactivatable
Certificate	Factory calibration certificate

- Double laser pointer
- Including drill for the measurement of frozen food
- Visible and audible alarm upon exceeding/shortfall of limit value

Type	Description	Part No.
TLC 730	Dual Infrared / Fold-Back Thermometer	1340-5730

TLC 1598 Precision Fold-Back Thermometer
with foldable Pt 1000 penetration probe and high accuracy



- High accuracy of $\pm 0.3\text{ }^{\circ}\text{C}$
- Short response time
- Approximately 4 years battery life time

Technical Data

Measurement range	-50 °C ... +200 °C (-58 °F ... 392 °F)
Accuracy	$\pm 0.3\text{ }^{\circ}\text{C}$ ($\pm 0.5\text{ }^{\circ}\text{F}$)
Resolution	0.1 °C (0.2 °F)
Sensor	Pt 1000
Needle type probe	Stainless steel, \varnothing 3 mm, L = 105 mm, pointed
Response time (t_{90})	8 s (water)
Operating temperature	0 °C ... +50 °C (32 °F ... 122 °F)
Storage temperature	-10 °C ... +60 °C (14 °F ... 140 °F)
Display	LCD 9 mm
Battery	3.6 V lithium
Battery lifetime	Approximately 4 years
Dimensions (L x W x H)	44 x 18 x 158 mm
Housing material	ABS
Weight	Approximately 70 g
Protection class	IP 54
Certificate	3-point factory calibration

Type	Description	Part No.
TLC 1598	Precision Fold-Back Thermometer	1340-1620

Accessories for Folding Thermometers TLC 730 and TLC 1598



AG 121 Nylon Case



AG 190 Drill for frozen food for TLC 730

Type	Description	Part No.
AG 121	Nylon case for TLC 1598 and TLC 730	1341-0624
AG 190	Drill for frozen food for TLC 730	1341-3834