

Temperature probe with penetration tip (TC Type K)

Temperature probe with penetration tip for measurements in pastes and semi-solid media and also in liquids and air



Technical data

Temperature - Pt100

Measuring range	-40 to +220 °C
Accuracy	Class 1 ¹⁾
Reaction time	7 s

General technical data

Diameter probe shaft	5 mm
Diameter probe shaft tip	3.6 mm
Product-/housing material	Stainless steel / GFK
Protection class	IP54
Length probe shaft	60 mm
Cable length	2 m
Length probe shaft tip	30 mm
Length probe shaft tip	15 mm
Weight	23 g

1) According to standard EN 60584-2, the accuracy of Class 1 refers to -40 to +1000 °C (Type K), Class 2 to -40 to +1200 °C (Type K), Class 3 to -200 to +40 °C (Type K).

Delivery Scope:

Robust stainless steel food probe (Pt100) with 1.5 m fixed cable.

TC Type K temperature probe with exceptionally flat cable, which can be pushed through narrow openings, e.g. through slits in doors

Temperature measurement in pastes and semi-solid media and also in liquids and air

Measuring range: -40 ... +220 °C

This thermocouple (TC) temperature probe with penetration tip can be used for measurements in pastes and semi-solid media and also for measurements in liquids and air.

The temperature probe features a thin, 2 m long ribbon cable. The thin ribbon cable can also be placed through narrow openings such as slits in doors or refrigerator seals.

Protection class IP 54 means that the temperature probe with penetration tip is protected against spray water.

This Type K, Class 1 thermocouple probe has a standardised accuracy of ± 1.5 °C.

The temperature probe's response time t_{99} (time it takes for the probe to register 99% of the jump in temperature) of 7 seconds refers to measurements in moving water at +60 °C. This response time is extended when, for example, measurements are taken in still liquid, pastes or air.*

The perfect probe for any application

Don't see the temperature probe you are looking for? Please contact us directly. We have a large range of standard temperature probes and we also manufacture customized probes specifically according to your personal requirements.

* For air temperature measurements, the response time is about 40 - 60 times higher than the indicated value measured in water. If you should require a rather sluggish temperature probe to measure air temperature, this probe is particularly suitable because it does not take brief temperature peaks into account at all, or only to a very small degree, when measuring temperature. For example, if you are planning to use the temperature probe with penetration tip to measure air temperature in the refrigerator, briefly opening the refrigerator door would not take into account the temperature fluctuation which results from mixing the warm room temperature with the refrigerator temperature.

If you need an air temperature probe with a fast response time, your best choice would be the exceptionally fast temperature probe 0602 0493 which has a large measuring range.