

Application

SKF ThermoLaser TMTL 1400K, is extremely user-friendly - simply aim, pull the trigger and read the temperature on the large backlit display. No contact with hot surfaces or moving parts means safer, faster and easier temperature measurement. The TMTL 1400K uses Infrared (IR) technology to measure the temperature.

Additionally, the TMTL 1400K allows temperature measurement where contact with a conventional temperature probe should be avoided to prevent surface contamination, making it ideal to use for measuring temperature of food processing applications.

For measuring higher temperatures or where direct contact measurement is preferred, the TMTL 1400K is supplied with a probe to enable direct contact measurement.

Description

The SKF ThermoLaser TMTL 1400K utilises a class II laser beam for accurate aiming and an infrared detector for measuring temperature. The TMTL 1400K is also supplied with a K type probe (TMDT 2-30) for direct contact measurement applications. It is supplied complete with batteries and operating instructions and the temperature reading is switchable between °C and °F.

The TMTL 1400K is an advanced instrument with variable emissivities selectable from 0.1-1.0 with various measurement modes.



Technical data

Designation	TMTL 1400K
Temperature range using infrared	-60 to 500 °C (-76 to 932 °F)
Temperature range using probe	-64 to 1400 °C (-83 to 1999 °F)
Probe supplied	TMDT 2-30, suitable for use up to 900 °C (1650 °F)
Probe types suitable	K type probes
Environmental limits:	
Operation	0 to 50 °C (32 to 120 °F) 10 to 95% R.H.
Storage	-20 to 65 °C (-4 to 150 °F) 10 to 95% R.H.
Full range accuracy	(Tamb = 23 +/- 3°C) +/-2% of reading or 2°C (whichever is greater)
Response time	500-1000 msec
Display	LCD
Displayed resolution	0.1° C/F from -9.9~199.9, otherwise 1° C/F
Distance to spot size	11:1
Spectral response	8-14 µm
Emissivity variable	0.1-1.0
User selectable backlit display	On/off
User selectable laser pointer	On/off
Measurement modes	Max, min, average, differential, probe/IR dual temperature modes
Alarm modes	High and low level alarm level with warning beep
Laser wave length	635 - 650 nm
Laser	Class 2
Maximum laser power	1 mW
Dimensions	175 x 72 x 39 mm (6.9 x 2.8 x 1.5 in)
Case dimensions	415 x 195 x 50 mm (16.3 x 7.7 x 2.0 in)
Weight (including case)	940 g (2.1lb)
Packed	Sturdy carrying case
Battery	2 x AAA Alkaline type IEC LR03
Battery lifetime	140 hours (with laser off, backlight off), otherwise 18 hours
Switch off	IR mode automatic after 60 seconds after trigger is released (60 minutes can be manually selected). Probe mode automatic after 12 minutes
EMC standards	EN 61326:1997+A1+A2
Laser standards	CFR 1040-10 / 60825-1

