



Basic Condition Monitoring



# SKF Product Data Sheet

## Basic infrared thermometer ThermoLaser TMTL 500

### Measuring temperature at a safe distance

Lightweight and compact, the ThermoLaser utilises advanced class II laser beam for accurate aiming and an infrared detector for measuring temperature. The ThermoLaser 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. Additionally, the ThermoLaser allows temperature measurement where contact with a conventional temperature probe should be avoided to prevent surface contamination, making ideal to use for measuring temperature of food processing applications.



- Safely measures the temperature of hot, hazardous or hard-to-reach objects
- Wide measurement range from -60 to 500 °C (-76 to 932 °F)
- Distance/spot ratio of 11:1, better for applications where accuracy is critical
- Ideal complement to other condition monitoring techniques, such as vibration analysis
- Backlit display, making temperature easier to read in dimly lit or dark places
- Temperature reading selection in °C or °F
- Low power consumption using 2x AAA batteries, more energy efficient
- Auto shut off feature, to optimise battery life
- Robust construction for use in an industrial environment

#### Technical data

Designation	TMTL 500
Temperature range	-60 to 500 °C (-76 to 932 °F)
Environmental limits	Operation 0 to 50 °C (32 to 120 °F) 10 to 95% R.H. Storage - 20 to 65 °C (-4 to 150 °C) 10 to 95% R.H. (Tamb = 23 +/- 3 °C) +/-2% of reading or 2 °C (whichever is greater)
Full range accuracy	500-1000 msec
Response time	LCD
Display	0.1 °C/F from -9.9-199.9, otherwise 1 °C/F
Displayed resolution	11:1
Distance to spot size	8-14 µm
Spectral response	No, permanently on
User selectable backlit display	No, permanently on
User selectable laser pointer	Pre-set 0.95
Emissivity	635 - 650 nm
Laser wavelength	Class 2
Laser	1 mW
Maximum laser power	175 x 72 x 39 mm (6.9 x 2.8 x 1.5 in)
Dimensions	Carton box
Packed	180 g (0.4lb)
Weight	2 x AAA Alkaline type IEC LR03
Battery	18 hours
Battery lifetime	Automatic after 15 seconds after trigger is released
Switch off	EN 61326:1997+A1+A2
EMC standards	CFR 1040-10 / 60825-1
Laser standards	

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