D:S = 50:1

ε = 0,1–1,0

An infrared thermometer that's an essential tool for every technician

SKF Infrared Thermometer TKTL 40

The SKF TKTL 40 is a portable, lightweight, multi- functional instrument for measuring temperatures at a safe distance. Simply aim and pull the trigger and the temperature is shown on the display. Users can also measure contact temperatures using the probe supplied. This feature rich instrument also can take pictures and videos which show the temperature measurements. In addition, a number of environmental properties can also be measured and displayed.

- Wide infrared temperature measurement range from –50 to +1 000 °C (–58 to +1 832 °F).
- Contact temperature measurement range from –50 to +1 370 °C (–58 to +2 498 °F).
- Built-in camera allows pictures and videos, with all measurement information to be taken, stored, recalled and exported to PC.
- Environmental properties such as ambient, dew point and wet-bulb temperatures, as well as relative humidity, can be displayed and stored.
- Dual laser sighting defines the temperature measurement area.
- Distance-to-spot ratio of 50:1 allows accurate temperature readings at long distances or for measuring temperatures of small areas
- User selectable variable emissivity between 0,1 and 1,0 allows most surface temperatures to be measured.

- Supplied with temperature probe TMDT 2–30 (max. 900 °C/ (1 652 °F)) for direct contact applications. Can also be used with any other SKF temperature probe.
- User selectable, multiple temperature measurement modes including: maximum, minimum, average, differential and probe/ infrared dual display.
- Data logging function can be used to visualise temperature changes over time.
- User selectable high and low alarm levels with audible warning signal.
- User selectable auto shut off feature optimises the rechargeable battery life.
- Supplied in a sturdy carrying case.

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When used in non-contact mode, the thermometer senses the thermal energy radiated from an object with an infrared detector. When pointed at an object, the infrared detector collects energy, producing a signal that the microprocessor translates as a reading on the backlit display. As the trigger is squeezed, the object temperature is continuously measured by the infrared detector. This allows for fast and accurate realtime readings.

Technical data

Designation	TKTL 40
Display	2.2", 320 × 240 colour LCD with backlight
Displayed resolution	0,1° up to 1 000°, otherwise 1°
Emissivity setting	0,1–1,0
Backlit display	Always on
Measurement modes	Min, max, average, differential, probe/IR dual display datalogger
HVAC functionalities	Wet bulb, dew point, humidity, air temperature
Alarm modes	High and low level alarm level with audible alarm
Photo and video mode	640 × 480 camera, images (JPEG) and video (3 GP)
Memory/PC connection	310 MB internal memory. Expandable using micro SD memory card (8 GB max.)/ mini USB cable
Laser pointer	2× built-in class 2 lasers, on/off
Maximum laser power	1 mW
Auto switch off	User selectable
Tripod Mount	1/4" BSW
Infrared temperature measurement	
Distance to spot size (D:S)	50:1
Temperature range using infrared	−50 to +1 000 °C (−58 to +1 832 °F)
Accuracy	20 to 500 °C: ±1% of reading or 1 °C (1.8 °F) whichever is greater 500 to 1000 °C: ±1,5% of reading −50 to +20 °C: ±3,5 °C (6.3 °F)
Response time	<300 ms
Spectral response	8–14 µm

Contact probe measurement	
Temperature using probe	−50 to +1 370 °C (−58 to +2 498 °F)
Probe compatibility	Type K
Probe supplied	TMDT 2-30, suitable for use up to 900 °C (1 650 °F)
Accuracy	0 to 1370 °C: ±0,5% of reading ±1,5 °C (2.7 °F) −50 to 0 °C: ±2,5 °C (4.5 °F)
Battery	1× Rechargeable Li-ion Battery 3,7 V 1 400 mAh 5,2 W
Operation time	4 hours continuous use
Power adapter	100V–240V 50–60Hz AC Compact Charger with Europe, USA, UK and Australian plugs
Charging time	2 hours with AC adapter
Product dimensions	205 × 155 × 62 mm (8.1 × 6.1 × 2.4 in.)
Product weight	500 g (1.1 lb)
Operating temperature	0 to 50 °C (32 to 120 °F)
Storage temperature	−10 to +60 °C (−4 to +150 °F)
Relative humidity	10 to 90% RH non-condensing
IP rating	IP 40
Case contents	1× Infrared thermometer TKTL 40 1× Contact probe TMDT 2-30 1× AC battery charger 1× Mini USB to USB connection cable 1× printed instructions for use 1× Mini tripod

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