

Infrared and contact thermometer

A digital infrared thermometer with laser and contact adaptor offering versatile temperature measurement options

- Infrared temperature measurement range from -60 to $+625$ °C (-76 to $+1\,157$ °F)
- Contact temperature measurement range from -64 to $+1\,400$ °C (-83 to $+1\,999$ °F)
- Distance-to-spot ratio of 16:1; allows accurate temperature readings at a distance
- 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); suitable for many direct contact applications
- Can be used with any **SKF temperature probe**
- User selectable, multiple temperature measurement modes including: maximum, minimum, average, differential and probe/infrared dual display, scan function
- User selectable high and level alarm levels with audible warning signal
- Mode dependant auto shut off feature optimises battery life
- Colour display with temperature trend indication
- Supplied in a sturdy carrying case ([fig. 1](#))



 [fig. 1](#)

Technical data	
Designation	TKTL 20
Description	Infrared digital thermometer
Temperature range using infrared	-60 to +625 °C (-76 to +1 157 °F)
Temperature range using probe	-64 to +1 400 °C (-83 to +1 999 °F)
Probe supplied	TMDT 2-30, suitable for use up to 900 °C (1 650 °F)
Environmental limits	Operation 0 to 50 °C (32 to 122 °F) 10 to 95% R.H. Storage -20 to 65 °C (-4 to 149 °F) 10 to 95% R.H.
Full range accuracy (Tamb=23 ±3 °C)	Tobj = 0 to 635 °C ±2% of reading or 2 °C (4 °F) whichever is greater Tobj = -60 to 0 °C ±(2 °C +0,05/degree)
Response time (90%)	<1 000 ms
Display	Colour LCD
Displayed resolution	0,1 °C/F from -9.9~199.9, otherwise 1 °C/F
Distance to spot size	16:1
Spectral response	8-14 µm
Emissivity	0,1-1,0

User selectable back lit 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 bleep
Laser wavelength	630-650 nm
Laser	Class 2
Maximum laser power	1 mW
Dimensions	195 x 70 x 48 mm (7.7 x 2.7 x 1.9 in)
Packaging	Sturdy carrying case
Case dimensions	530 x 85 x 180 mm (20.9 x 3.4 x 7.0 in.)
Weight	Total (incl. case): 1.1 kg (2.4 lb) TKTL 20: 230 g (0.50 lbs)
Battery	2 x AAA Alkaline type IEC LR03
Battery lifetime	18 hours
Switch off	IR mode automatic after 60 s after trigger is released (60 min can be manually selected) Probe mode automatic after 12 min
EMC standards	EN 61326-1,-2-2:2006
Laser standards	21CFR, Ch 1-J