

SKF TKTL 11



Instructions for use
Bedienungsanleitung
Instrucciones de uso
Mode d'emploi

Manuale d'istruzioni
Instruções de uso
Инструкция по эксплуатации
使用说明书

4. Technical data

Designation	TKTL 11
Temperature range	-60 to 625 °C (-76 to 1 157 °F)
Environmental limits	
Operation	0 to 50 °C (32 to 122 °F) 10 to 95% R.H.
Storage	-10 to 60 °C (14 to 140 °F) 10 to 95% R.H.
Full range accuracy	
Tamb = 25°C	Tobj = 15 to 35 °C, +/- 1.0 °C (1.8 °F)
Tamb = 23 +/- 3°C	Tobj = 0 to 625 °C, +/-2% of reading or 2 °C (4 °F) whichever is greater
Tamb = 23 +/- 3°C	Tobj = -60 to 0 °C, +/- (2 + 0.05/°) °C
Response time	1 000 msec (90%)
Optics	Sense emitted, reflected and transmitted energy.
Display	Color LCD
Displayed resolution	0.1 °C/F from -76-999.9, otherwise 1 °C/F
Distance to spot size	16:1
Spectral response	8-14 µm
User selectable backlit display	No, permanently ON
User selectable laser + LED	No, permanently ON
Buttons	2 buttons. function as per instructions for use
Emissivity	Pre-set 0.95
Laser pointers	8 laser dots
Laser wavelength	635 - 660 nm
Laser	Class 2
Maximum laser power	1 mW
Dimensions	119.2 × 171.8 × 47.5 mm (4.7 × 6.8 × 1.9 in)
Packed	White Carton Box
Weight	400 g (0.88 lb)
Battery lifetime	typical 12 hours, min 9 hours continuous use with laser and backlight
Switch off	Automatic after 15 seconds after trigger is released

10. Emissivity table

Substance	Thermal emissivity	Substance	Thermal emissivity
Asphalt	0.90 to 0.98	Cloth (black)	0.98
Concrete	0.94	Human skin	0.98
Cement	0.96	Leather	0.75 to 0.80
Sand	0.90	Charcoal (powder)	0.96
Earth	0.92 to 0.96	Lacquer	0.80 to 0.95
Water	0.92 to 0.96	Lacquer (matt)	0.97
Ice	0.96 to 0.98	Rubber (black)	0.94
Snow	0.83	Plastic	0.85 to 0.95
Glass	0.90 to 0.95	Timber	0.90
Ceramic	0.90 to 0.94	Paper	0.70 to 0.94
Marble	0.94	Chromium oxides	0.81
Plaster	0.80 to 0.90	Copper oxides	0.78
Mortar	0.89 to 0.91	Iron oxides	0.78 to 0.82
Brick	0.93 to 0.96	Textiles	0.90