Pinpoint accuracy combined with measurement versatility

SKF Tachometer Series

The SKF Tachometers are fast and accurate instruments utilizing laser or contact to measure rotational and linear speeds. Equipped with a laser and a range of contact adapters, they are versatile instruments that suit a wide range of applications. Having a compact design, they can be operated with just one hand and are supplied in a sturdy carrying case.

TKRT 10

- Wide speed measurement range: up to 99 999 r/min for laser measurement and 20 000 r/min using contact adapters
- Measurement modes include; rotational speed, total revolutions, frequency, surface speed and length in both metric and imperial units
- Laser can be used for safe and quick, non-contact rotational speed measurements at distances up to 0.5 m *(20 in.)*
- Large back-lit LCD display enables easy reading in almost all light conditions
- Angular range of ±45° to target helps facilitate easy measuring
- Up to 10 readings can be stored for later reference

TKRT 20

- The user can select the following to measure:
  - rpm, rps, m, ft or yds per minute or second,
  - length or revolution counting, or
  - time interval
- Wide speed range and the various measurement modes make the SKF TKRT 20 suitable for measuring speed in many applications
- Large angular range of ±80° to target facilitates easy measuring in areas where straight–line access is difficult
- The laser optical system allows easy and quick measurements at a safe distance from rotating machinery
- The large inverting LCD display facilitates easy reading, even when pointing the unit down into the machinery
- The SKF TKRT 20 can also be equipped with a remote laser sensor, which is optionally available

The laser optical system allows easy and quick measurements at a safe distance from rotating machinery.

Technical data

Designation	TKRT 10	TKRT 20
Display	5 digit LCD backlit display	Inverting vertical 5 digit LCD
Memory	10 readings memories	Last reading held for 1 minute
Measurement		
Optical modes	r/min, hertz	r/min and r/s (also count and time interval)
Contact modes	r/min, metres, inches, yards, feet, per min, hertz	r/min and r/s, metres, yards, feet, per min and per sec
Count modes	total revs, metres, feet, yards	total revs, metres, feet, yards
Sampling time	0,5 seconds (over 120 r/min)	0,8 seconds or time between pulses 0,1 seconds auto-selection in max or min capture mode
Linear speed	0,2 to 1 500 metres/min *(4 500 ft/min)*	0,3 to 1 500 metres/min (4 500 ft/min) or equivalent in seconds
Optical measurement		
Rotational speed range	3 to 99 999 r/min	3 to 99 999 r/min
Accuracy	±0,05% of reading ±1 digit	±0,01% of reading ±1 digit
Measuring distance	50 to 500 mm *(1.9 to 19.7 in.)*	50 to 2 000 mm *(1.9 to 78.7 in.)*
Angle of operation	±45°	±80°
Laser sensor	1 × built-in class 2 laser	1 × built-in class 2 laser
Remote laser sensor	N/A	Optional TMRT 1-56
Contact measurement		
Rotational speed range	2 to 20 000 r/min	Max. 50 000 r/min for 10 sec
Accuracy	±1% of reading ±1 digit	±1% of reading ±1 digit
Contact adaptors	Included with conical tip, conical recess and wheel	Included with r/min cone and removable metric wheel assembly
Battery	1× 9 V alkaline type IEC 6F22	4× AAA alkaline type IEC LR03
Operation time	12 hours continuous use	24 hours continuous use
Product dimensions	160 × 60 × 42 mm *(6.3 × 2.4 × 1.7 in.)*	213 × 40 × 39 mm *(8.3 × 1.5 × 1.5 in.)*
Product weight	160 g *(0.35 lbs)*	170 g *(0.37 lbs)*
Carrying case dimensions	260 × 85 × 180 mm *(10.3 × 3.4 × 7.0 in.)*	260 × 85 × 180 mm *(10.3 × 3.4 × 7.0 in.)*
Operating temperature	0 to 50 °C *(32 to 122 °F)*	0 to 40 °C *(32 to 104°F)*
Storage temperature	–10 to +50 °C *(14 to 122 °F)*	–10 to +50 °C *(14 to 122 °F)*
Relative humidity	10 to 90% RH non-condensing	10 to 90% RH non-condensing
IP rating	IP 40	IP 40