SKF Electrical Discharge Detector Pen TKED 1

Unique, reliable and safe way to detect electrical discharges in electric motor bearings



The SKF Electrical Discharge Detector Pen (EDD Pen) is a simple to use hand-held instrument for detecting electrical discharges in electric motor bearings. Electrical discharges are a result of motor shaft voltages discharging to earth through the bearing, causing electrical erosion, lubricant degradation and ultimately bearing failure.

Electric motors are more vulnerable to suffer electrical erosion in bearings when controlled by a Variable Frequency Drive.
When incorporated into a predictive maintenance programme, the EDD Pen can help detect bearings more susceptible to failure, and significantly prevent unplanned machine downtime.

- Unique remote solution allows operation at a distance from the motors. This helps protect the user from touching machinery in motion
- SKF technology*
- No special training required
- Capable of detecting electrical discharges on a time base of 10 seconds, 30 seconds or indefinite
- LED Backlit screen, allows use in dark environments
- IP 55 can be used in most industrial environments
- Supplied standard with batteries, a spare antenna and language free Instructions for use in a carrying case

Technical data	
Designation	**TKED 1**
Description	SKF Electrical Discharge Detector Pen
Power supply	4,5V – 3 x standard AAA batteries (LR03, AM4)
Time control: - pre-sets - default	 10 or 30 seconds indefinite
Operational and storage temperature	0º to 50 °C (32 to 122 ºF) -20 to 70 °C (-4 to 158 ºF)
IP level	IP 55
Display	LCD counter range: 0 to 99999 discharges. User selectable backlight and low battery warning
Case dimensions (w x d x h)	255 x 210 x 60mm (10 x 8.3 x 2.3 in)
Total case and contents weight	0,4 kg (0.88 lbs)

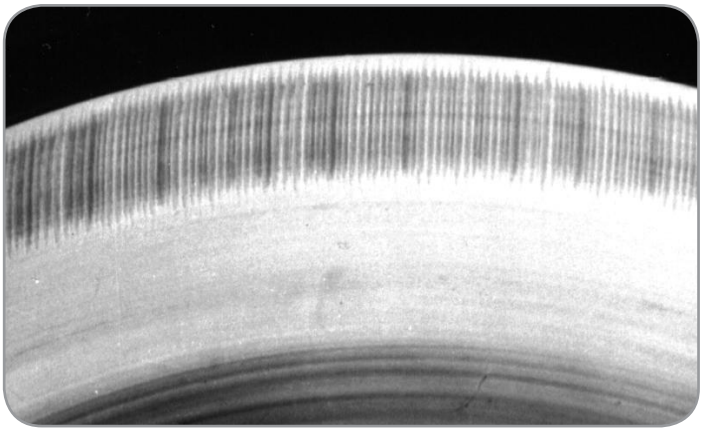


**Patent applied for*





Lubricant degradation caused by electrical discharge currents



Fluting marks characteristic of electrical erosion in bearings



SKF Maintenance Products

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