

# 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.

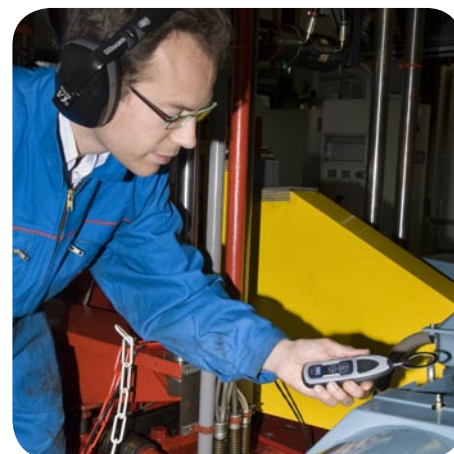
When incorporated into a predictive maintenance programme, the EDD Pen can help detect bearings more susceptible to failure, and significantly prevent unplanned machine downtime.

- 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

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



\* Patent applied for

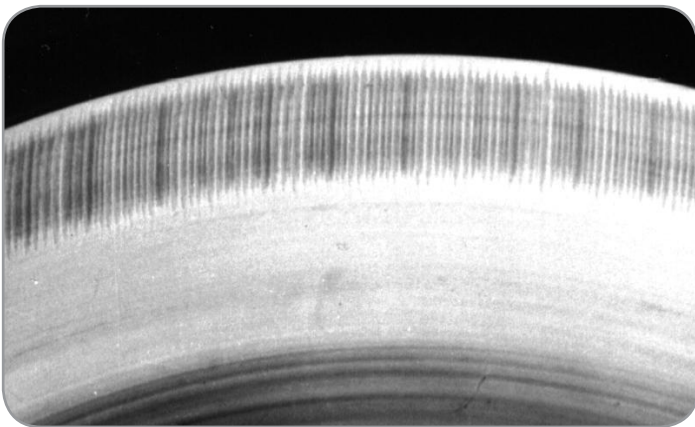


Basic condition monitoring





*Lubricant degradation caused by electrical discharge currents*



*Fluting marks characteristic of electrical erosion in bearings*



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