PROFILER TECH

MMS7000
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YOUR COMPLETE OVERVIEW

MMS7000
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Precision Surface Measurement of Commutators and Slip Rings

Profiler Tech draws on over 20 years' experience and proven success in design and manufacture of profiling systems to deliver the next generation of Profiler. The **MMS7000** is a rugged lightweight and user friendly industrial PDA utilising touch screen technology.

All industrial electrical motors experience Commutator and Slip Ring wear. There are many contributing factors; wear can occur from mechanical abrasion and electrical erosion at the brush face. As a result this wear contributes to the surface becoming out of round.

When ovality increases beyond normal levels, it may perpetuate surface wear and electrical erosion due to brush arcing. Wear rates of commutators and Slip Rings must be kept within acceptable limits to guarantee the performance of the motor.
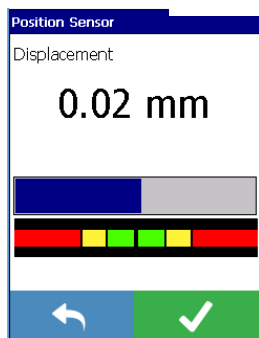

The MMS7000 Profiler delivers accurate information regarding the surface condition, signaling the need for further investigation of underlying causes or for immediate maintenance action.
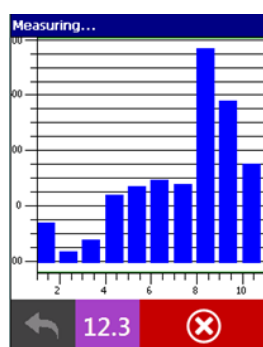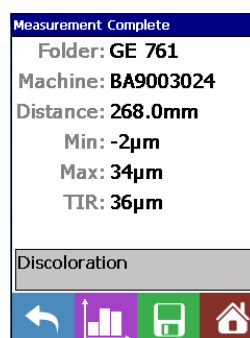
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The **Profiler7000 Application** allows for simple set-up, user interface and provides an accurate digital display of the Commutator or Slip Ring run-out.
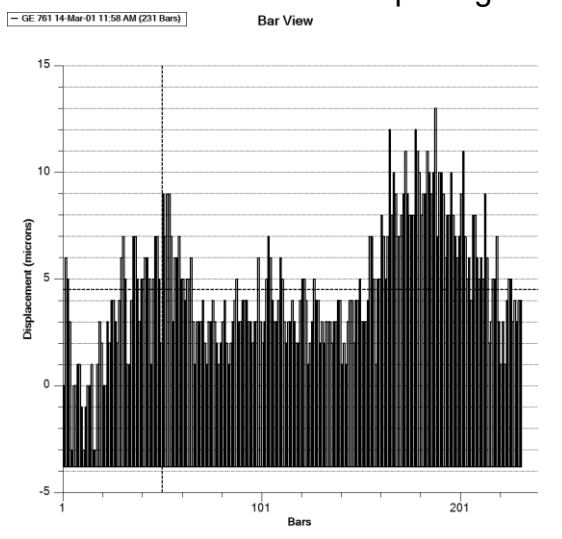
Position Sensor
Displacement

0.02 mm

Easily position the Sensor using the Numeric Displacement readout and associated bar graph indictor

Measuring...

12.3

Live measurements can be displayed as a digital value or as a Shape Plot of the profile.

Measurement Complete
Folder: **GE 761**
Machine: **BA9003024**
Distance: **268.0mm**
Min: **-2µm**
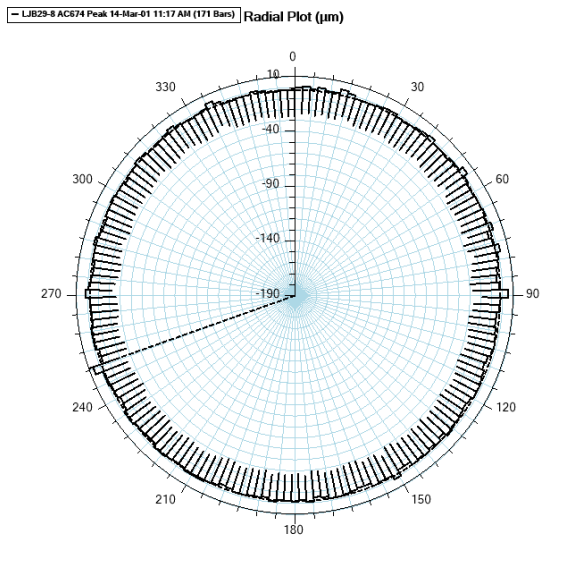Max: **34µm**
TIR: **36µm**

Discoloration

EVOsoft Analysis software is a flexible Windows based application. Its data analysis capabilities and interactive charting provides the analyst with a powerful tool for analysing change in surface condition and for reporting.

GE 761 14-Mar-01 11:58 AM (231 Bars)   Bar View

Shape plots identify the MBTB and average displacement value of the profile.

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LJB29-8 AC674 Peak 14-Mar-01 11:17 AM (171 Bars) | Radial Plot (μm)

Radial plots show the overall shape of the profile. Overlay and align previous profiles to determine wear rates.

EVOsoft supports importing of existing profile recordings from the Commtest MAS Databases.

Kit Includes

1. MMS7000
2. Sensor & Clamp
3. Carry Case
4. Power Adapter
5. USB Cable
6. Sensor Sleeve
7. Sensor Spacer Set
8. EVOsoft Analysis software
9. Quick Reference Guide

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Technical specifications

Range	±16 mil (±400 µm)	with ± 2.5mm initial position indication
Resolution	0.04 mil (1µm)	At room Temperature Battery voltage not less than 6.5 V
Accuracy	± 2% ± 0.16 mil (4 µm)	
Sampling Interval	Max recording speed 4 in/s (100 mm/s)	Slip ring segment size 160 ± 20 mil (4 ± 0.5 mm) Recordings taken in Shape mode are sampled at 20 mil (0.5 mm) across the bar or segment

Technical
    CPU
    SDRAM Volatile Memory
    Flash Non-Volatile Memory
    Memory Expansion
    Operating System
	Samsung S3C2440 (400MHz)
	64MB
	
	128MB
	Secure Digital (SD)
	WinCE 5.x
		1 GB SD card installed as standard

Display
    Type
    Resolution
    Viewable Area
    Backlight
	TFT - High Brightness
	240 x 320 pixels
	54 x 72mm
	LED	

Termination	Custom 8 pin round plug	
Communications	Custom 13 pin plug USB	

Battery
    Type
    Voltage (nominal)
    Capacity (nominal)
	Lithium Ion
	7.4 Volts
	1,700mAh (12.5Wh)	

Physical
    Dimensions
    Weight
	172 x 95 x 42mm (6.8 x 3.7 x 1.6 inches)
	560 grams (19.75 ounces)
		2.61kgs MMS7000 ,case & accessories

Environmental
    Humidity
    Storage temp
    Operating temp
    Sealing
	5% to 90% (non-condensing)
	-20°C to 65°C (-4°F to 149°F)
	-10°C to 60°C (14°F to 140°F)
	IP671[1]
		Non-condensing
		Non-condensing

Regulatory
    FCC
    CE
    RoHS Compliant
	FCC Part 15, Class B
	EN55022, EN55024, CISPR22/24
	Yes	

Specifications are subject to change without prior notice

NB the MMS7000 is compatible with existing MMS6000 sensors