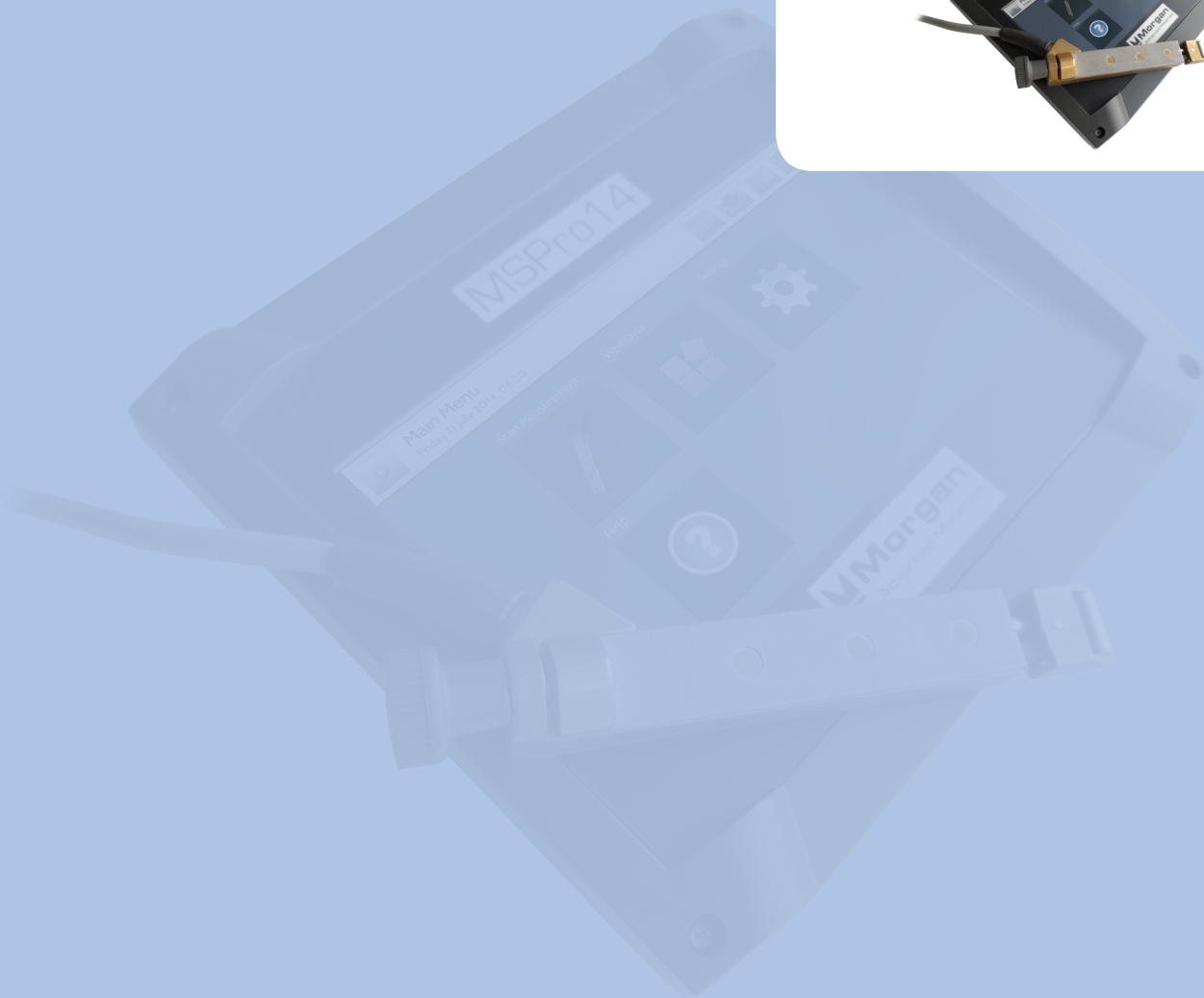


# Advanced Electrical Materials MSPro I 4 Surface Profiler



Morgan MSPro I 4 - the new improved Surface Profiler not only can accurately measure and record surface conditions on commutators and slip rings but also offers:-

- A solid easy to mount sensor that can be fitted to a vast range of holder sizes to cope with extreme environments including vibration
- Easy to use responsive industrial Touch Screen
- Optimised sensor head that can easily be used on Helical Groove Slip Rings
- Zero setting light indicators for easy set up
- Previous Morgan supplied profiler measurements can be stored and combined on MSPro I 4
- Extra large memory capacity for data storage and can be edited on the data acquisition box
- Comes in a robust carrying case including all attachments



### **All Inclusive - All you need to profile your commutator or slip ring**

Included in the package is The MSPro I 4 in a robust lightweight case including:-

- DASPro I 4(Data Analysis Software)
- Sensor & clamp, sensor sleeve, and sensor spacer set
- Download cable
- AC power adaptor
- G Clamp
- Flashlight & pen



## Direct Data collation and storage

The measurement tablet is easy to use with:-

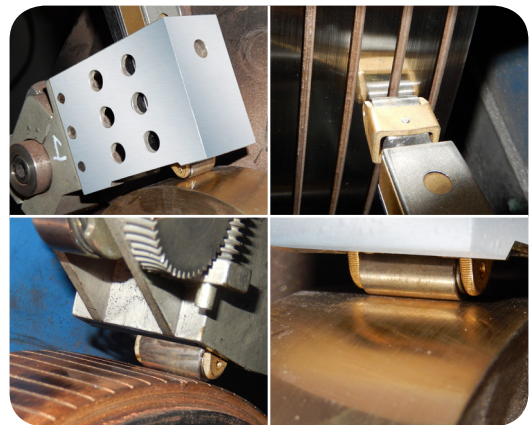
- Responsive touch screen
- Encased in a robust housing
- Capability for analysing at the point of measurement
- Software capable of uploading previous profiler data supplied by Morgan
- Can be used with any PC via USB
- Energy saving automatic sleep mode



## Versatile to suit a variety of applications

From steel mill motors to wind turbine slip rings the MSPro14 covers all your profiler requirements, for a highly accurate reading.

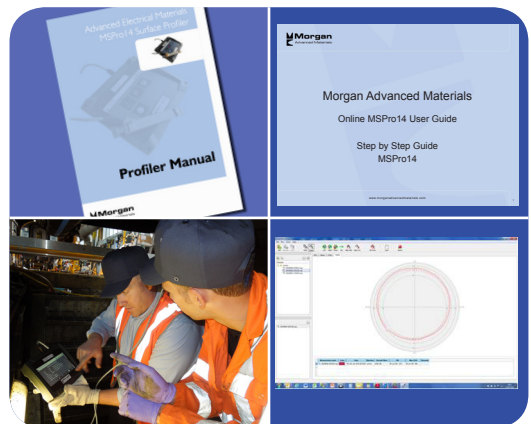
- Optimised sensor head for commutators, slip rings and helical grooved slip rings
- Designed for an easy fit into the brush box
- Easy switch from imperial to metric
- Longer sensor than previous version for use in the longer wind power holders



## Training and Technical support

The Morgan team are always on hand to support your training requirements offering:-

- Site visits for demonstrations
- Hard copy in-depth manual
- Online step by step guide
- Technical handbooks and technical wall charts sharing brush and holder best practices
- Technical and wall charts explaining common brush and holder issues
- Further training courses on brushes, holders, commutation and slip rings can be booked through our customer service teams




## After Sales Support

The MSPro14 is the latest technology for surface profilers and Morgan offer:-

- Calibration Service
- Components available separately
- Software upgrades via online downloads
- Download support- please do not hesitate to contact us



Specifications	MSPro I4™ Surface Profiler	Notes
Range	±20 mil (±500 µm)	Imperial/Metric is user-selectable
Resolution	0.04 mil (1 µm)	
Accuracy	±2% ±0.16 mil (4 µm)	At ambient temperature of 73±9°F (23 ± 5°C)
Sampling Interval	Maximum recording speed 4 in/s (100 mm/s)	Slip ring segment size 40 ± 4 mil (1 ± 0.1 mm) Recordings taken in "Shape" mode contain 4 samples per segment
Memory Data Storage	100+ named Data Sets 100+ recordings per Data Set	Each recording has time/date stamp
Capacity	100,000+ samples per recording 32 MB (approx.) Up to 255 Alpha-Numeric characters.	Total # of samples depends on # of data sets Flash Memory
Display Type	Colour LCD	
Resolution	640 x 480 pixels	
Viewing Area	6.0"x3.4" (153mm x 86mm)	
Backlight	LED	
Termination Displacement	Custom 8 pin round plug	

Specifications	MSPro I4™ Surface Profiler	Notes
Communications	USB 2.0	
Battery Type	Li-Ion	Imperial/Metric is user-selectable
Voltage	3.7 Volts nominal	
Capacity	7800 mAh nominal	
Operating Time	6 hours (nom.)	
Charger & Conditioner	Charge over USB	USB charger is included in kit
Charge rate	1.5 A (with included USB charger) 0.5 A (with PC charger port)	4.5 hrs for complete charge (nom.) 14 hrs for complete charge (nom.)
Mechanical Size	9.7"Wx6.1"Lx3.0"H (200mmWx175mmLx-55mmH)	
Weight – Base Unit	2.2 lb (1 kg)	
Complete Kit	8.8 lb (4 kg)	
Environmental Temperature/ Humidity	32°F to 122°F (0°C to 50°C) 80% RH 32°F to 86°F	Non-condensing
Operating	70% RH 32°F to 122°F 14°F to 140°F (-10°C to 60°C) 95% RH	Non-condensing
Storage		 Radiated and conducted emissions RF field, ESD and fast transient immunity
EMC	EN 61000-3-2:2006/A2:2009 EN 61000-6-2:2005	

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