

# Advanced Electrical Materials MSPro14 Surface Profiler



Morgan MSPro14 - 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 MSPro14
- Extra extensive memory for storing information and editable 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 MSPro14 in a robust lightweight case including:-

- DASPro14(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:-  
especially 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

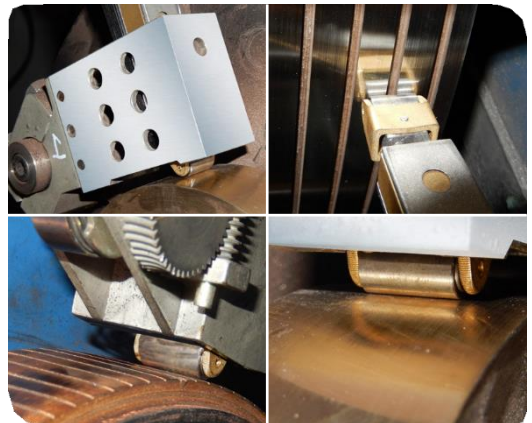


## Versatile to suit a variety of applications

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

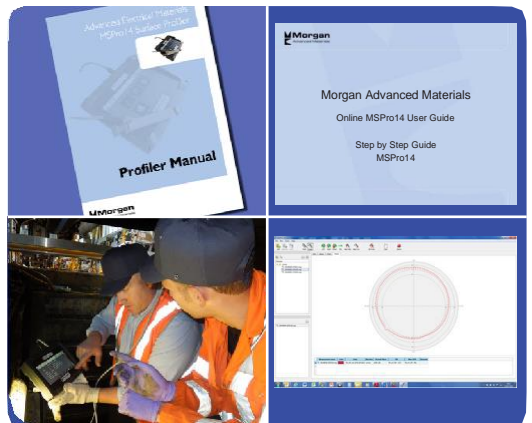
The Morgan team are always on hand to support your training requirements offering:-

- 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                                 | MSPro14™ 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<br>4 in/s<br>(100 mm/s)  | Slip ring segment size<br>40 ± 4 mil (1 ± 0.1 mm)<br>Recordings taken in "Shape" mode contain 4 samples per segment |
| Memory Data Storage                            | 100+ named Data Sets<br>100+ recordings per Data Set                                     | Each recording has time/date stamp  |
| Capacity                                       | 100,000+ samples per recording<br>32 MB (approx.)<br>Up to 255 Alpha-Numeric characters. | Total # of samples depends on # of data sets<br>Flash Memory  |
| Display Type Resolution Viewing Area Backlight | Colour LCD<br>640 x 480 pixels<br>6.0"x3.4" (153mm x 86mm)<br>LED                        |   |
| Termination Displacement                       | Custom 8 pin round plug  |   |

| Specifications                                | MSPro14™ Surface Profiler   | Notes   |
|---|---|---|
| Communications                                | USB 2.0   |   |
| Battery Type Voltage Capacity Operating Time  | Li-Ion<br>3.7 Volts nominal<br>7800 mAh nominal<br>6 hours (nom.)   | Imperial/Metric is user-selectable  |
| Charger & Conditioner                         | Charge over USB   | USB charger is included in kit  |
| Charge rate                                   | 1.5 A (with included USB charger)<br>0.5 A (with PC charger port)   | 4.5 hrs for complete charge (nom.)<br>14 hrs for complete charge (nom.)       |
| Mechanical Size                               | 9.7"Wx6.1"Lx3.0"H<br>(200mmWx175mmLx55mmH)  |   |
| Weight - Base Unit Complete Kit               | 2.2 lb (1 kg)<br>? lb (? kg)  |   |
| Environmental Temperature/ Humidity Operating | 32°F to 122°F (0°C to 50°C)<br>80% RH 32°F to 86°F<br>70% RH 32°F to 122°F<br>14°F to 140°F (-10°C to 60°C)<br>95% RH | Non-condensing<br>Non-condensing  |
| Storage                                       |   |   |
| EMC   | EN 61000-3-2:2006/A2:2009<br>EN 61000-6-2:2005  | Radiated and conducted emissions<br>RF field, ESD and fast transient immunity |

**For all enquiries, please contact us:**

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