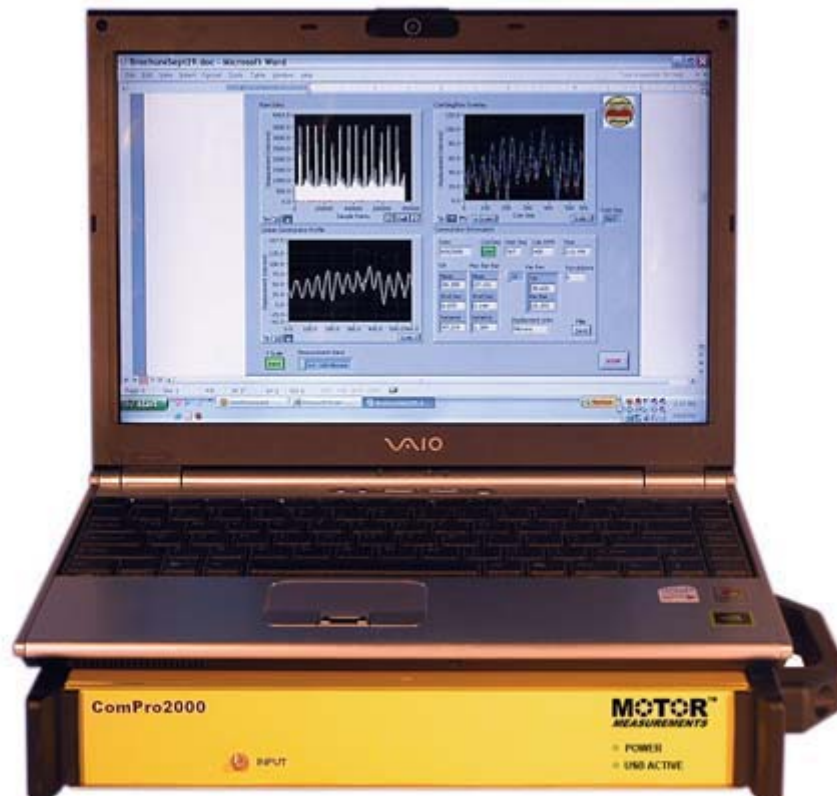


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## **COMPRO2000™, PORTABLE, HIGH-SPEED, COMMUTATOR PROFILER.**

The new ComPro2000™ from Motor Measurements™ is a portable diagnostic tool for quickly and easily determining the health of your motor's commutators. The ComPro 2000's exclusive noncontact method of measurement results in a commutator profile that can take minutes to complete verses hours for typical contact-based methods.



Contact-based profiling systems require you to shut down your process to obtain the measurement. The very nature of this measurement method oftentimes prevents the optimal collection interval necessary as a part of a risk management strategy for DC machinery. With minimal downtime, the ComPro2000™ can gauge your motor's or generator's commutator health while it's in operation. Speed, surface\airborne contamination, temperature, voltage, or current do not affect the ComPro2000™'s non-contact

measurement technology. Since the profile can be obtained under normal operating conditions, not only is the static profile measured (the profile that you would obtain with a contact-based measurement) but the dynamic profile is measured as well.

The dynamic profile may reveal abnormal conditions even when the static profile is acceptable. These dynamic situations can be a source of poor commutation, poor commutator life, excessive commutator maintenance, and poor brush life.

The key to the ComPro2000™'s ability to achieve a non-contact profiling is the combination of its unique ability to sense the commutator's geometry and extract critical measurement information from each individual commutator segment, as well as the commutator as a whole, while the motor or generator is at full speed. Since the ComPro2000™ can sample the commutator surface at a frequency of 1 MHz, the result is that commutator profiles can be obtained at surface speeds greater than 1,500 inches per second. The ComPro2000™ automatically determines the proper sampling frequency without prior knowledge of motor speed or commutator diameter. Additionally, the ComPro2000™ can determine the number of commutator segments that comprise the commutator and the motor speed.

The ComPro2000™ system includes the rugged measurement module with integrated carrying handle for portable operation, a 3 meter cable/probe assembly, a magnetic-mount probe holder, USB cable, and the ComSoft2000™ Windows-based software. For portable applications it's recommended to attach the measurement module to a notebook PC via the included USB cable. For stationary applications the measurement module can be attached to any Window's based PC having a USB port. The USB port must be 2.0 compliant.

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