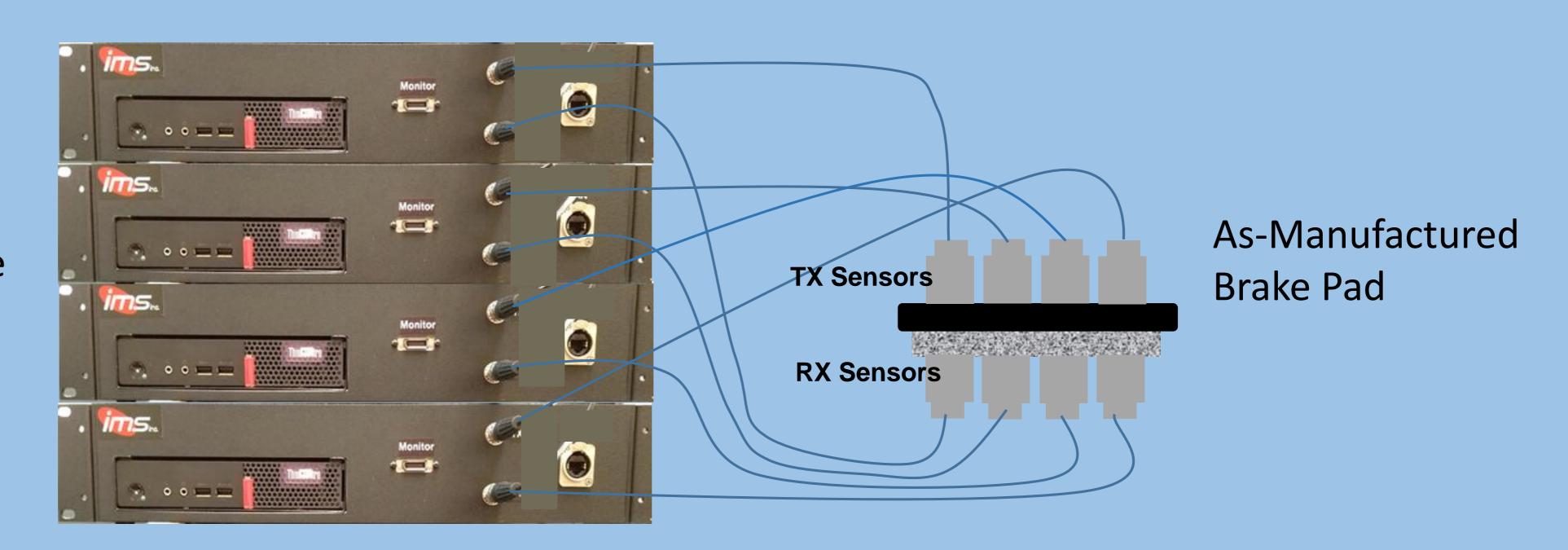


Dynamic Modulus Measurement on As-Manufactured Brake Pads using the Rapid iETEK in a Production Environment

The Rapid iETEK, RiETEK, is a non-destructive, ultrasonic instrument used to measure uniformity and dynamic modulus in as-manufactured pads. RiETEK uses the same technology as the ETEK 3000 (SAE specification J2725). Measurement time is less than 300 milliseconds in a production environment. RiETEK is specifically designed for automation companies and system integrators as an essential component for in-line testing of automotive brake pads.

Inspection speed is limited only by the parts handling system. IMS Inc. works with system integrator and automation vendors to customize the parts handling to suit specific needs to make Rapid iETEK measurements in a production environment.

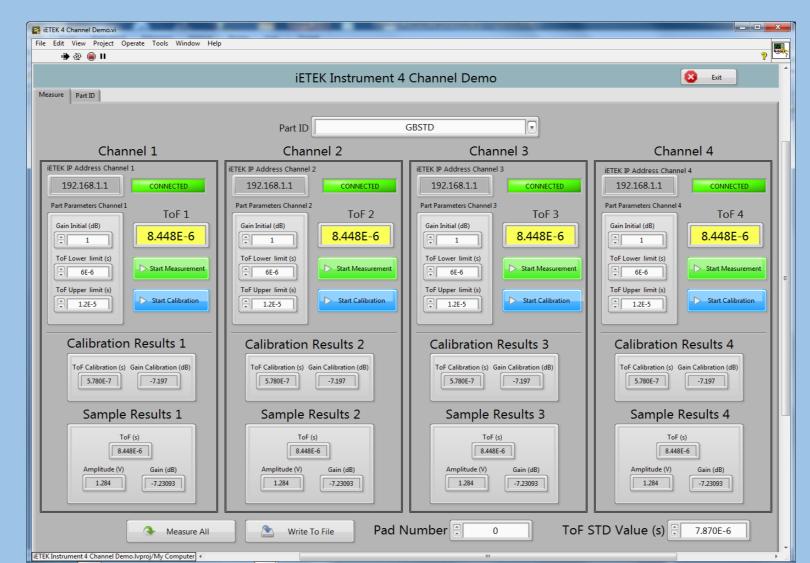
Modular RiETEK units
allow simultaneous
measurement of multiple
positions per brake pad



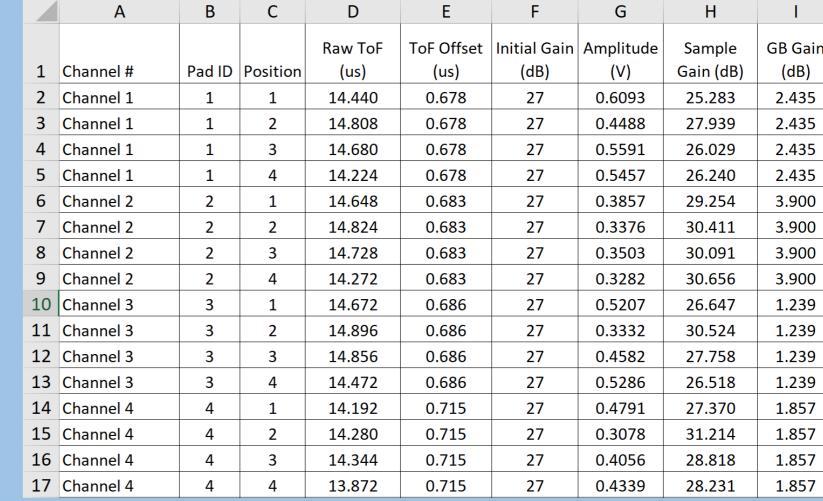
The **RiETEK** is a quality control tool for spatial uniformity and batch-to-batch consistency. No sample preparation is required and all sizes of pads can be measured.



Processor Control and Monitor Functions provided for initialization and Part ID files control parameter initialization



Example of 4-channel Interface to measure 4 positions simultaneously per brake pad.



RiETEK Test Data for Modulus
Calculation and Signal Loss written
to Excel file.

RIETEK Components: Each unit consists of an ultrasonic system, including specifically designed sensors, high-speed A/D, Processor and Modbus TCP communication software used to initiate the measurement and transfer the test results to a host computer.

