The Wiper system measures force distribution between blade and glass. A uniform force profile leads to excellent visibility through the windshield. An uneven profile, such as high force under one or two claws can lead to scratches. If there are low force regions, such as a claw misalignment, or a blade bowing between claws, poor wiping and streaks are likely. Many windshields have compound curves, presenting a challenge to the arm mechanism. The blade could mate well with the glass positions, but not at others. Sequential static measurements taken at representative blade angles simulate upstroke and down-stroke movement and determine how well the arm assembly follows the contour of the windshield. Some users operate the system on highways and wind tunnels to find if wind impingement results in blade lift-off or higher contact force.

**Application:**
- Force profile along blade length
- Sequential static measurements in different positions merge to show entire sweep on windshield

**Key Features:**
- Captures force at many locations along blade
- Real time sensor image for instantaneous feedback
- Graphing and analysis for product comparisons
- Flexible, thin-film sensors conform to curved glass
- Sensors are durable and reusable
- Simple USB connection
- Portable for field use
- Sensitive
- Equilibration fixture enhances sensor uniformity
- Calibration with application of a known force
- Sampling rate 10Hz

**Benefits:**
- Competitive bench-marking tool
- Reduces the need to build costly fixtures
- Design verification

**Found in:**
Research & Development, Design, and Test Facilities

**Industries:**
Wiper and Automotive Manufacturers
Specifications and Features

Software Features:
- Merge multiple static measurements
- Display real-time and recorded data as 2-D and 3-D images
- Play-back force “movies”
- View data frame-by-frame
- Link digital images to force data
- Export data in ASCII format
- Display data frame-by-frame, single, and/or multi-frame
- View and compare multiple tests simultaneously
- And much, much more!

Sensor Description:
Model #9901, Model #9920

Spatial Resolution
4.0 sensels/linear in (1.57 sensels/linear cm)

Technology
Resistive

Calibration
With application of a controlled device, Included with system purchase

Sampling Rate
10 Hz

Pressure Range
0-10 PSI

Sensor Thinness
0.004 in (0.1 mm)

Add-On Option:
Wireless Capability - Enables a wireless connection between your sensor/handle and your PC allowing for ultimate flexibility in data acquisition.

Call Today for a Demonstration!