WINDSHIELD WIPER SYSTEM

The surface pressure mapping system Windshield wiper displays detailed pictures and statistical data of the contact area of the wiper blade and windshield of a car in real-time. Tactilus® uses a powerful windows based tool kit to display images of the contact patch and reveal irregularities in pressure across the entire blade surface. Tests can be performed with Tactilus® in both laboratory and wind tunnel environments.

Tactilus® is a matrix-based tactile surface sensor. Essentially an “electronic skin” that records and interprets pressure distribution and magnitude between any two contacting or mating surfaces. Each Tactilus® sensor is assembled to exacting tolerances and individually calibrated and serialized.

The architectural philosophy of Tactilus® is modular allowing for portability, easy expansion, and simultaneous data collection of up to 4 discrete sensor pads. Tactilus® employs sophisticated mathematical algorithms that intelligently separate signal from noise, and advanced electronic shielding techniques to maximize the sensor’s immunity to noise, temperature and humidity.

TECHNOLOGY	PIEZORESISTIVE FABRIC
PRESSURE RANGE	0 - 142 PSI (0 - 10 kg/cm2)
GRID SIZE	1 X 64 (WITH STANDARD LENGTH)
SENSING POINTS	64 (WITH STANDARD LENGTH)
SENSOR DIMENSIONS	0.4” x 32” (1cm x 82cm) LENGTH CUSTOMIZABLE
SCAN SPEED	50 hertz
SPATIAL RESOLUTION	0.4 (9.35 mm)
THICKNESS	39 mils (1 mm)
ACCURACY	± 10%
REPEATABILITY	± 2%
REPEABILITY ERROR	± 3%

Tactilus®

SPI SENSOR PRODUCTS INTL.
TACTILE PRESSURE EXPERTS

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