

# About DMI

Direct Measurements, Inc. (DMI) develops and produces gages, sensors, and portable devices used to measure and predict the structural health of operating systems in the fields of civil infrastructure, aerospace, energy systems, and laboratory testing environments. With a versatile product suite based on proprietary, wire-free, material-independent, strain-indicating technology, DMI is challenging conventional thinking with novel, cost-saving solutions that integrate seamlessly into existing operations.

With centuries of combined experience in experimental mechanics and new product development, the DMI team specializes in innovative, non-destructive inspection tools along with custom applications for laboratory and field inspection/monitoring needs. This brochure provides an overview of DMI's strain measurement, crack detection, and structural monitoring product offerings.

## Aerospace & Defense



## Energy



## Civil Infrastructure



## Laboratory & Testing



*"Direct Measurements products address a largely un-served market need and stand to significantly impact the stress-analysis industry."*

Henry V. Landau  
President & CEO (Ret)  
Vishay Measurements Group

## Distributor Information

Direct Measurements Inc. is developing a global network of engineering based distributors and manufacturer representatives to provide product support and services in the United States and worldwide.

DMI is currently seeking US and International Distributors and Manufacturer Representatives for our products and services. For additional information contact DMI or visit [www.directmeasure.com](http://www.directmeasure.com).



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**Strain Measurement  
Crack Detection  
Structural Monitoring**

Purpose

Features

Gage\*\*

Software



**DPS**

**DPSLab**

**SR2**

**Epsilon**

**Sigma**

**Ninja**

**Remote structural monitoring on bridges, buildings, aircraft, power plants or any structural article/component**

**Laboratory and limited field use for structural monitoring on any structural article or component**

**Laboratory testing and field inspection on any structural article or component**

**Laboratory testing, field inspection, and examination on any structural article or component**

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**Aircraft fastener/rivet hole cold work validation**

- Measures strain and monitors crack initiation and growth
- Wireless data access, 24/7 data logging, real-time display, and processing
- Field ready, self-contained, and reusable

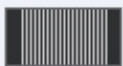
- Measures strain and monitors crack initiation and growth
- 24/7 data logging, real-time display, and processing
- Portable, reusable, and connects via USB 2.0

- Measures multi-component strain and detects structural anomalies
- Collects, displays, and logs data continuously or as needed
- Handheld, compact, easy-to-use, and connects via USB 2.0

- Measures residual strain and monitors crack initiation and growth
- Collects, displays, and logs inspection data in CSV/Excel text database
- Handheld, compact, easy-to-use, and connects via USB 2.0

- Indicates stress/residual stress
- Collects, displays, and logs inspection data in CSV/Excel text database
- Handheld, compact, easy-to-use, and connects via USB 2.0

- Validates cold work expansion and measures hole diameter
- Collects, displays, and logs validation data in CSV/Excel text database
- Rugged, compact, battery powered tablet computer



0.375 x 0.183 in (9.5 x 4.6 mm)



0.375 x 0.183 in (9.5 x 4.6 mm)



0.39 in (10 mm) square



0.39 in (10 mm) diameter



0.39 in (10 mm) diameter

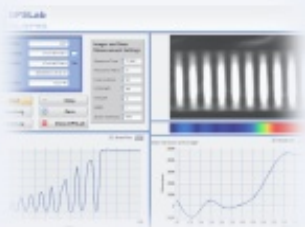
No Gage Required

**DPSConsole**



- DPSConsole is a web-based interface running on the DPS device; provides wireless device control and data retrieval to any Internet-capable device
- DPSView\* runs on a PC; provides access to real time data, device control, multiple data analysis and visualization options, and post processing capabilities

**DPSLab\***



- DPSLab\* runs on a PC; provides 24/7 data logging at user-specified frequency, access to real-time data, device control, and multiple data analysis and visualization options

**SR2**



- SR2 utilizes a connected handheld reader to provide multiple independent strain differential measurements within the gage area, rosette and principal strain calculations, multiple view options, data logging, and more.
- SR2Proc\* runs on a PC; provides a post processing graphical interface for analysis and display of historical SR2 data files

**Epsilon**



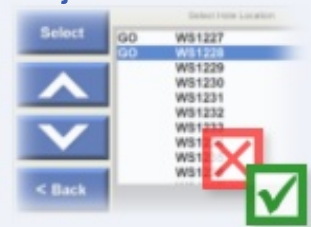
- Epsilon utilizes a connected handheld reader to provide 36 independent extensional strain measurements within the gage area, 3-D graphical strain display, numerical data display, data logging, and more

**Sigma**



- Sigma utilizes a connected handheld reader to provide inner and outer stress/residual measurement display, data logging, and more

**Ninja**



- Ninja is a rugged tablet computer and handheld reader with a custom 'wizard' style interface that simplifies the cold-work validation process; displays 'Go/No-Go' results and logs quantitative expansion data in an Excel/CSV database to assess task completion and fatigue-life extension

\* utilizes powerful LabVIEW-based data analysis and visualization tools (LabVIEW NOT required by end user)

\*\* precision laser-machined pattern on adhesion-treated polymer backing; applied using conventional strain-gage bonding materials and methods