

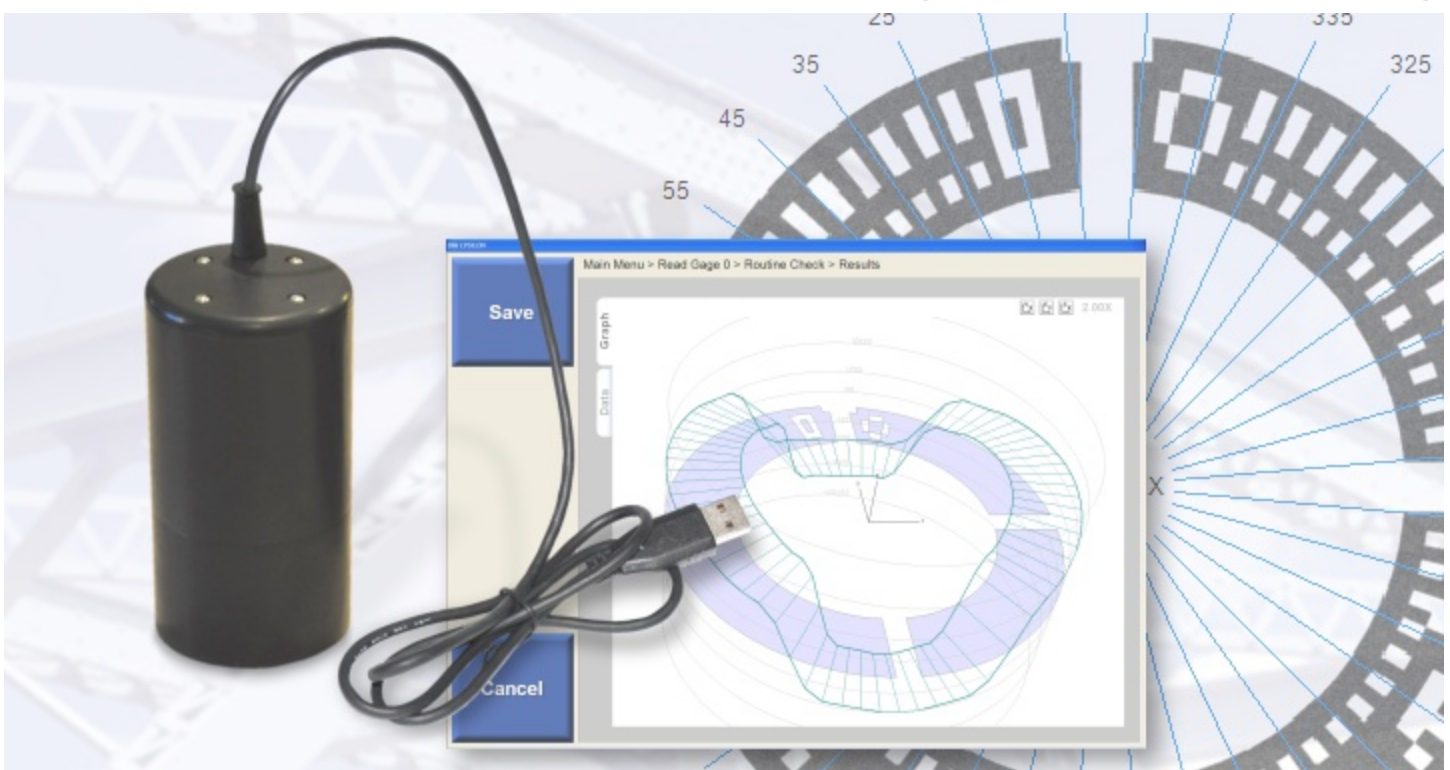


DIRECT MEASUREMENTS, INC.

Epsilon

Strain Measurement System

Strain Measurement/Fatigue and Crack Monitoring



Epsilon Features

- Measures residual strain
- Accurate, compact, easy to use
- No wiring, soldering, or separate data acquisition equipment required
- Logs readings in CSV/Excel text files
- Utilizes DMI polymer strain gages
- Includes rugged DMI handheld reader (requires one USB 2.0 port)
- Compatible with Windows XP and Windows 7 operating systems*

Epsilon Applications

Civil Infrastructure



Aerospace & Defense



Energy



Laboratory & Testing



* Windows is a registered trademark of Microsoft Corporation in the United States and other countries.

US & Int'l Patent/Patent Pending

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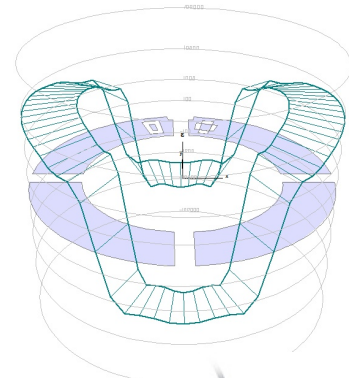
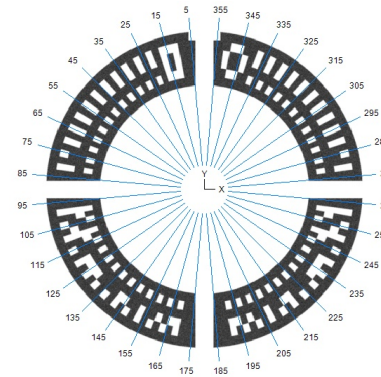
Epsilon Strain Measurement System

Strain Measurement/Fatigue and Crack Monitoring

DMI Epsilon

DMI Epsilon is a software package designed specifically for strain measurement. It utilizes an intuitive 'wizard' style interface that simplifies measurement process. DMI Epsilon works with circular DMI polymer strain gages and makes 36 independent extensional strain readings within the gage area. Features include a 3-D graphical strain display, data display, data logging, and more.

DMI polymer strain gages are bonded in desired measurement locations using conventional strain-gage application methods and materials, and readings are taken "as needed" using the DMI handheld reader (typically 'before' and 'after' a strain-inducing event). DMI polymer strain gages work on most materials, including metals, plastics, and composites.



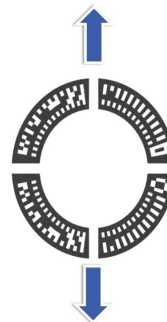
Epsilon Operation



Bond a DMI polymer strain gage at the measurement location



Take an *Initial Baseline* gage reading using the DMI handheld reader



Allow the strain event to occur (strain may be intentional or unintentional).



Measure strain by taking a *Routine Check* reading using the DMI handheld reader.

Contact Information

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Technical Specifications

Epsilon Handheld Reader
Material: ABS Plastic
Handheld Reader: 5.2H x 2.7D in (132H x 69D mm)
Connection: USB 2.0, 3.3 ft (1m) cable
Accuracy: <10 microstrain^{*1}

Epsilon Polymer Gage^{*2}
Material: Polyester
Dimensions: 0.39 in (10 mm) diameter^{*3}
Operating Temperature: -200 to 200 F (-129 to 93 C)

Computer Requirements
Operating System: Windows XP Professional^{*4} or Windows 7 Professional^{*4}
Processor: 1.6 GHz or greater
Connectivity: USB 2.0

Epsilon Software
Epsilon

Panasonic Toughbook U1 (Optional)
Panasonic Toughbook U1, Epsilon software pre-installed

^{*1} DMI results under controlled conditions, actual results may vary
^{*2} Bonding methods and material same as conventional electrical-resistance strain gage application
^{*3} Contact DMI for gage size customization
^{*4} Windows is a registered trademark of Microsoft Corporation in the United States and other countries

US & Int'l Patent/Patent Pending