## PCAS-100A

## **Printed Circuit Assembly Stress Measuring Software**



## **Evaluates reliability of PCA\* with** strain gages.

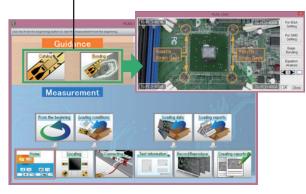
- •Allows a beginner to handle it easily.
- Analyzes the stress measurements results on PCB and creates reports.
- Use: Testing of printed circuit assembly ICT, BFT, heat sink assembly, system board integration, or system assembly

Combination with the PCD-400A or PCD-430A, the Printed Circuit Assembly Stress Measuring Software PCAS-100A is the dedicated software to test stress of PCA.

The PCAS-100A allows a beginner to test a PCA stress, analyze data, and create reports in accordance with IPC/JEDEC-9704A\*\*.

- \* PCA: Printed Circuit Assembly
- \*\* Evaluation method for PCA using strain gages is regulated by IPC/ JEDEC-9704A and it is valid for quality evaluation or failure analysis.

The Guidance lets you check kinds of strain gages and a bonding method.



Operating	Environ	nment
OS \	Window	s Vista®, Windows® 7, Windows® 8, 8.1 or
\	Window	/s® 10, English/Japanese
3	32, 64 bi	its support
CPU I	ntel Core	e i3 or advanced
Memory	f 32-bit (	OS, 2 GB or more
I	f 64-bit (	OS, 4 GB or more
Display	1024×76	58 pixels or more
	1280×10	024 pixels or more recommended
Measuring	Condit	tions
		els 16 (Uniaxial gages: 16 PC
		Triaxial gages: 5 PC)
Channel C	ondition	ns Gage types
		(1G2W, 1G3W,2G2W, 2G3W, 3G2W, 3G3W,
		half bridge, and full bridge)
		Measuring range (200, 500, 1000, 2000,
		5000, 10000, and 20000 ×10 <sup>-6</sup> strain)
		Gage factor
Measuring	Modes	3
	,	Recoding from REC to STOP, or designated
		number of data items from REC.
Sampling F	requenc	cies 100, 200, 500, 1 k, 2 k, 5 k, and 10 k Hz
LPF		10, 30, 100 Hz, and FLAT
Measuring	Condit	tion Files Saves and loads the pre-set measuring
	,	conditions.
Measuring	Instrur	ments
		ments PCD-400A, PCD-430A (Max. 4 units)
Applicable		
Guidance		<u> </u>
Catalog		Searches strain gages for PCA stress test.
		Describes the method of strain gage bondir
Bondina		
Bonding		on the PCB.
		on the PCB.
Monitor	phs	
	phs	X axis is time (s).
Monitor Y-time Gra		X axis is time (s). Y axis is strain (Uniaxial-gage, principal, diagonal
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Locating gages

Measuring data

Creating reports

Report Types Graph and tables

Clipboard

Printing

**Report Files** 

**Graph-reports** Y-time graphs, strain-rate graphs

Prints out reports.

read and edited.

Table-reports Maximum principal strain, minimum principal strain, diagonal strain, and strain-rate

Allows other application software to use the data.

Allows report files (PCR format) to be saved,

Copies graphs and tables.