

Move into the future with reliable measurements



Products for PCB Strain measurement

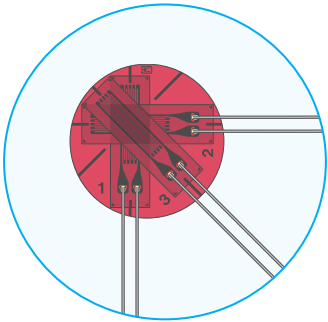
Simple Strain measurement of PCB



Strain measurement for Printed Circuit Board

Printed circuit board is integrated into modern electrical devices such as computer, smart phone, automotive control system and medical devices. There is requirement for precise design of printed circuit board as density of electronic components is higher. So, there is growing demanding for stress measurement with strain gage to prove reliability of printed circuit board.

● Strain gage model suitable for stress test on printed circuit board



KFGS-10-120-D17-11/16/23

KFGS - foil gage for general purpose -

Advantage of use of strain gage

- Simple measurement process
- Reliable accuracy
- Compact dimension

*Linear expansion coefficient selectable up to target object

*Lead-wire length can be customized.

● Data logger suitable for stress test on printed circuit board



PCD-400A

Sensor Interface PCD-400A/430A

Connecting with computer through USB interface enable users to conduct strain measurement.

Other data logger example that can be used to record data with KS2 file



EDX-200A



EDX-5000A

*Model selection is up to measurement channel and sampling frequency and so on.

● Software series for data recording, analysis and report making



PCAS-100A/200A

PCA Stress Measuring Software PCAS-100A

In combination with PCD-400A/430A, it can be used to record and analyze data and make report document

PCA Stress Analysis Software PCAS-200A

It can output CSV file with analysis of data from KS2 file recorded in Kyowa measuring instruments.

Printed Circuit Assembly Stress Measurement Set

Contents



Printed Circuit Assembly Stress Measuring Software PCAS-100A



Sensor Interface PCD-400A



Housing Case

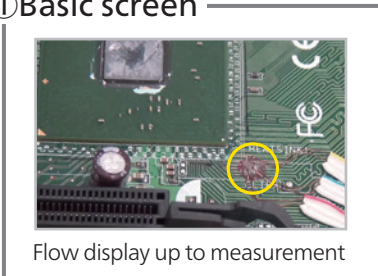
Standard accessories:
AC adaptor, USB cable.
Note: Strain gages, adhesives and PC are not included.

PCAS-1000A is set model code including software and data acquisition device ensuring simple strain measurement on printed circuit board according to IPC/JEDEC-9704A.

Features① Easy measurement for beginners of stress measurement

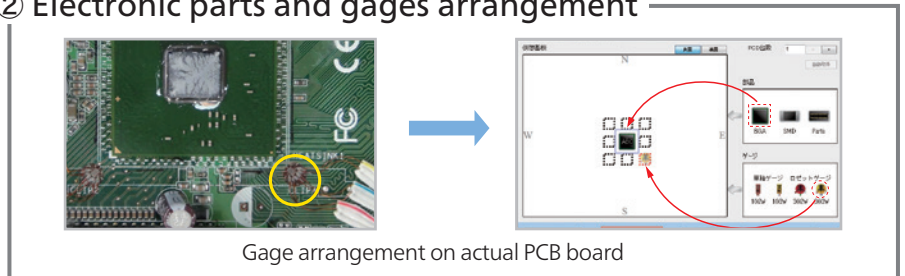
Referring to software screen, seamless measurement can be done from set-up, online-measurement and report preparation.

① Basic screen



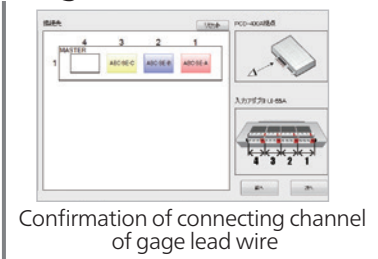
Flow display up to measurement

② Electronic parts and gages arrangement



Gage arrangement on actual PCB board

③ Gages connection



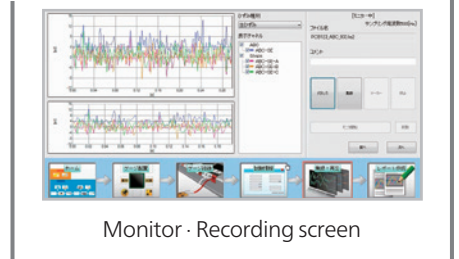
Confirmation of connecting channel of gage lead wire

④ Test information input



Input information

⑤ Measurement screen



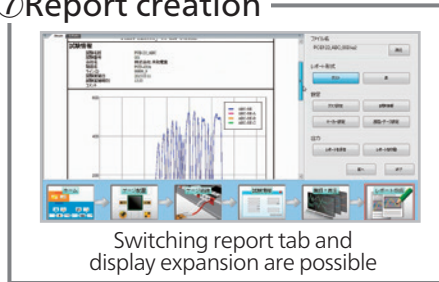
Monitor · Recording screen

⑥ Data Acquisition



Data recording with simple operation

⑦ Report creation



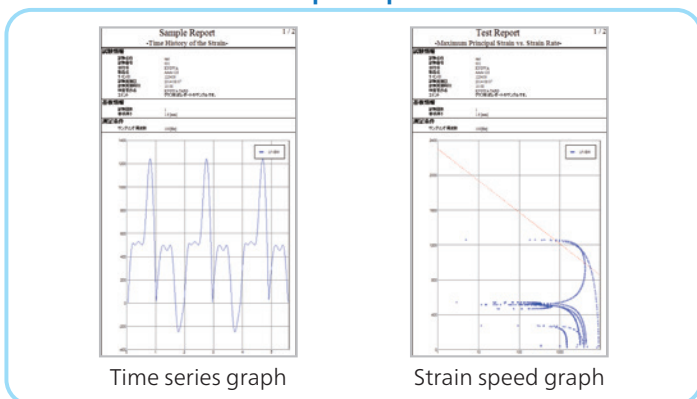
Switching report tab and display expansion are possible

※English and Japanese version are available for this software.

Features② Equipped with report function specialized for stress measurement of printed circuit board

Report document can be created easily with using measured data.
Report can be created with two formats: graph format and table format.

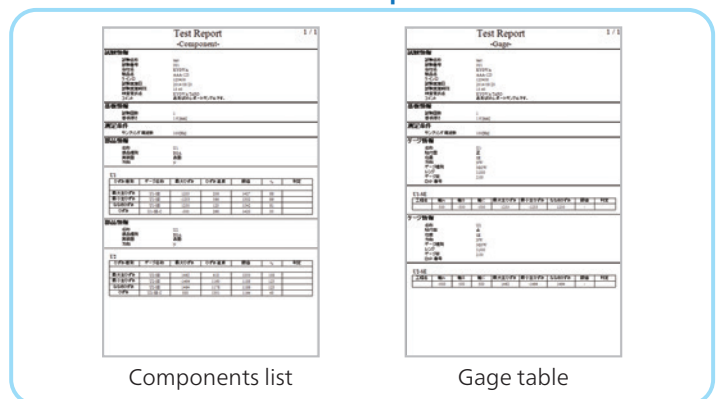
Graph report



Time series graph

Strain speed graph


Table report



Components list

Gage table

 Printed Circuit Assembly Stress Measuring Software
PCAS-100A

 Printed Circuit Assembly Stress Analysis Software
PCAS-200A






Measurement and analysis according to IPC/JEDEC-9704A can be performed easily. Strain measurement can be done easily by referring to strain gage bonding guidance and intuitive measuring instrument setting.



Analysis reports according to IPC/JEDEC-9704A can be created from measurement data recorded with Kyowa measurement instruments and its control software DCS in simple process.

Lineup

Models	Data Acquisition	Data Analysis	Creating Report	Available Channels	with PCD-400A
 PCAS-100A	○	○	○	16ch	—
 PCAS-200A	—	○	○	128ch	—
 PCAS-1000A	○	○	○	16ch	○

Sales Network



Americas Region

KYOWA AMERICAS Inc.
TEL: +1-248-348-0348
E-mail: sales@kyowa-americas.com
Website: <http://www.kyowa-ei.us/>

China

KYOWA ELECTRONIC(SHANGHAI)TRADING CO.,LTD.
TEL: +86-21-64477770
E-mail: support-cn@d1.kyowa-ei.co.jp
Website: <http://www.kyowa-ei.cn/>

Thailand

KYOWA DENGYO(THAILAND) CO.,LTD.
TEL: +66-2-117-3760
E-mail: sales-thailand@kyowa-ei.co.th
Website: <http://www.kyowa-ei.co.th/>

Other Countries or Regions

Please visit below URL.
Website: <http://www.kyowa-ei.com/>

Kyowa Electronic Instruments Co.,Ltd.

Overseas Department:
3-5-1, Chofugaoka, Chofu, Tokyo 182-8520 Japan
TEL; +81-42-489-7220 FAX: +81-42-488-1122
E-mail: kyowaoverseas.hp@d1.kyowa-ei.co.jp
Website: <http://www.kyowa-ei.com/>



Safety Precautions

Be sure to observe the safety precautions given in the instruction manual, in order to ensure correct and safe operation.

• Specifications are subject to change without notice for improvement.



JQA-0821
JQA-EM4824

Manufacturer's Representative