

EL-120 / EL-220

Elogger



Elogger™ Strain Measurement System

Printed Wiring Board Strain Testing

Strain testing allows objective analysis of the strain and strain rate levels that a SMT package is subjected to during PWB assembly, test and operation.

The Elogger™ Strain Measurement System is special design for printed wiring board strain testing application, The real-time data provided by the Elogger system avoid the risk such failures include solder ball cracking, trace damage, pad lifting and substrate cracking during board manufacturing and test processes.

APPLICATION:

Automotive:



Car control center



Tire pressure system



Parking sensors

Consumer Electronics:



Smart phone and Pad



Laptop



Wearable devices



Sever

Manufacturing process improvement

SMT assembly process:

- Board depanelization (routing) processes
- All manual handling processes
- All rework and retouch processes
- Connector installation
- Component installation

Shipping Environment:

- Shock and vibration test
- Drop testing test

Mechanical assembly:

- Heat sink assembly
- Board support/stiffener assembly
- System board integration or system assembly

Board test processes:

- In-Circuit Test (ICT)
- Board Functional Test or equivalent functional test



In Circuit Tests



Edge cutting machines



ICT



Drop testing

SYSTEM FEATURES & BENEFITS

- Portable Carrier, compact and lightweight.
- Connect to strain gauge and thermocouple directly
- Available for 120Ω or 350Ω quarter bridge inputs.
- High speed sampling rate up to 50K Hz per channel
- Simultaneous sampling with anti-aliasing filter and analog-to-digital conversion for each channel.
- PC-Based mainframe provide Hi-Speed USB interface.
- Mainframe support various type modules.
- Meet hardware requirement of IPC/JEDEC 9704 & 9702.

PRODUCT SELECTION



EL-120



EL-220

Mainframe			
Model	Slots numbers	Dimensions	Weight (full installed)
EL-120	8 slots	301.4(L) x 133.1(H) x 104(W) mm	3.5Kg
EL-220	4 slots	208.6(L) x 133.1(H) x 104(W) mm	2.12Kg

Specifications

General

Operating Temperature	-40 °C - 70 °C
Storage Temperature	-40 °C - 85 °C
Maximum Altitude	5000 m
Operating Relative Humidity	10 % - 90 %
interface	USB 2.0
Max Measuring unit	4 units

Power Requirements

Input Voltage Range	100 VAC - 240 VAC
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Shock and Vibration

Operational Shock	50 g
Random Vibration	10 Hz - 500 Hz
Random Operating Frequency Range	5 g



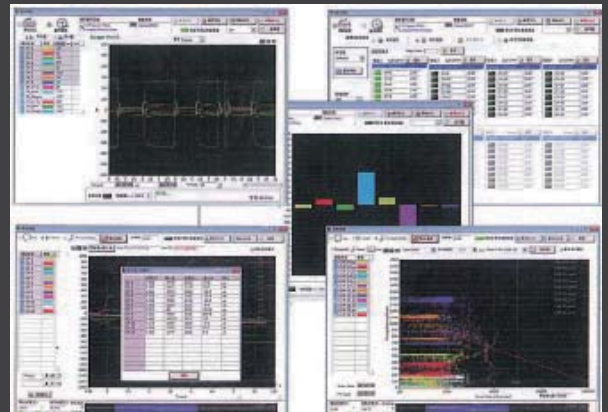
IEP-1A TC-1A QB-12 QB-35 QB-DU

Input Modules

Model	Measurement type	Measurement objects	Measuring Range	No. of Channel	Sampling Rate (Pre Channel)	A/D Resolution	Accuracy
QB-12	Strain	120Ω strain gauge	±55,000μϵ	8 Ch	10,000 Hz	24 bit	±0.02%
QB-35	Strain	350Ω strain gauge	±55,000μϵ	8 Ch	10,000 Hz	24 bit	±0.02%
IEP-1A	IEPE	Accelerometer	±5V	4 Ch	50,000 Hz	24 bit	±0.05%
TC-1A	Thermo	Thermocouple	8mV	4 Ch	3 Hz	24 bit	±0.1 °C
QB-DU	Strain	120 & 350Ω strain gauge	±55,000μϵ	4 Ch	50,000 Hz	24 bit	±0.02%

SOFTWARE FEATURES

- User friendly software with One-touch report generation function
- Languages Version selectable includes English, Simplify and Traditional Chinese.
- Data analysis as diagonal strain, Max/Min principal strain, strain rate, Qstrain.
- Easy select analysis function and display in the same page.
- Allow to set up software on different computers.



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