

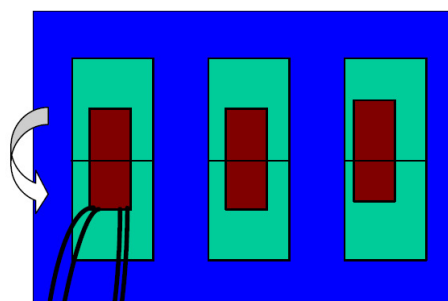
Components, Semiconductors, PCB/R&D, Testing, QA, Inspection

Test the Flexibility of Substrates and Signal Cables

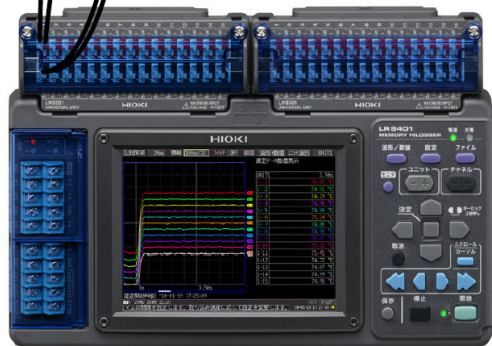
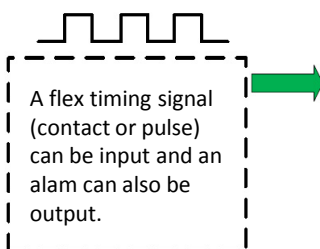
Record and monitor the chronological changes in the resistance values in a flex test of flexible substrates and signal cables.

■ Highlights

- Resistance changes caused by the flex stress on the flexible wiring substrate used in the wiring to moving parts such as wiring that passes through the hinge of a folding mobile phone or wiring in a camera lens can be recorded on multiple channels.
- The LR8401-20 Memory HiLogger provides 30 channels as standard for 4-terminal measurements and can perform measurements on up to 60 channels if channels are added.
- Changes in the temperature during measurement can also be recorded simultaneously by measuring the temperature on another unused channel.
- An increase in the resistance value and number of flexes for a broken wire can also be measured by counting the number of flexes using the integration function of pulse digital inputs. Furthermore, the signal at that point can also be output using the alarm output terminal.
- To measure at more than 60 points (up to 105), use Wireless Logging Station LR8410-20 and designated input modules. *LR8410-20 and input modules emit radio waves. For the latest information about countries and regions where wireless operation is currently supported, please visit the Hioki website.
- To measure resistance, 4-terminal measurements can be performed in the 10 Ω range (at a resolution of 0.5 mΩ) to 200 Ω range (at a resolution of 10 mΩ) by applying a current of 1 mA.
- Up to 10 ms high-speed sampling (on 15 channels) 20 ms on 15 to 30 channels 50 ms more than 31 channels. *The maximum sampling speed of LR8410-20 is 100ms no matter how many channels are used.



Flex testing machine



MEMORY HiLOGGER LR8401-20
(Datalogger with Voltage/Thermocouple/Pt100 input unit)

Products used

- MEMORY HiLOGGER LR8401-20 (30ch)
- UNIVERSAL UNIT LR8501 (15ch)
- WIRELESS LOGGING STATION LR8410-20
- WIRELESS UNIVERSAL UNIT LR8511 (15ch)

• Information valid as of April 2014.
• Specifications are subject to change and revision without notice.