

Environment-Resistant Digital Gage LINEAR GAGE LG100 Series Compact-type Counter EJ Counter



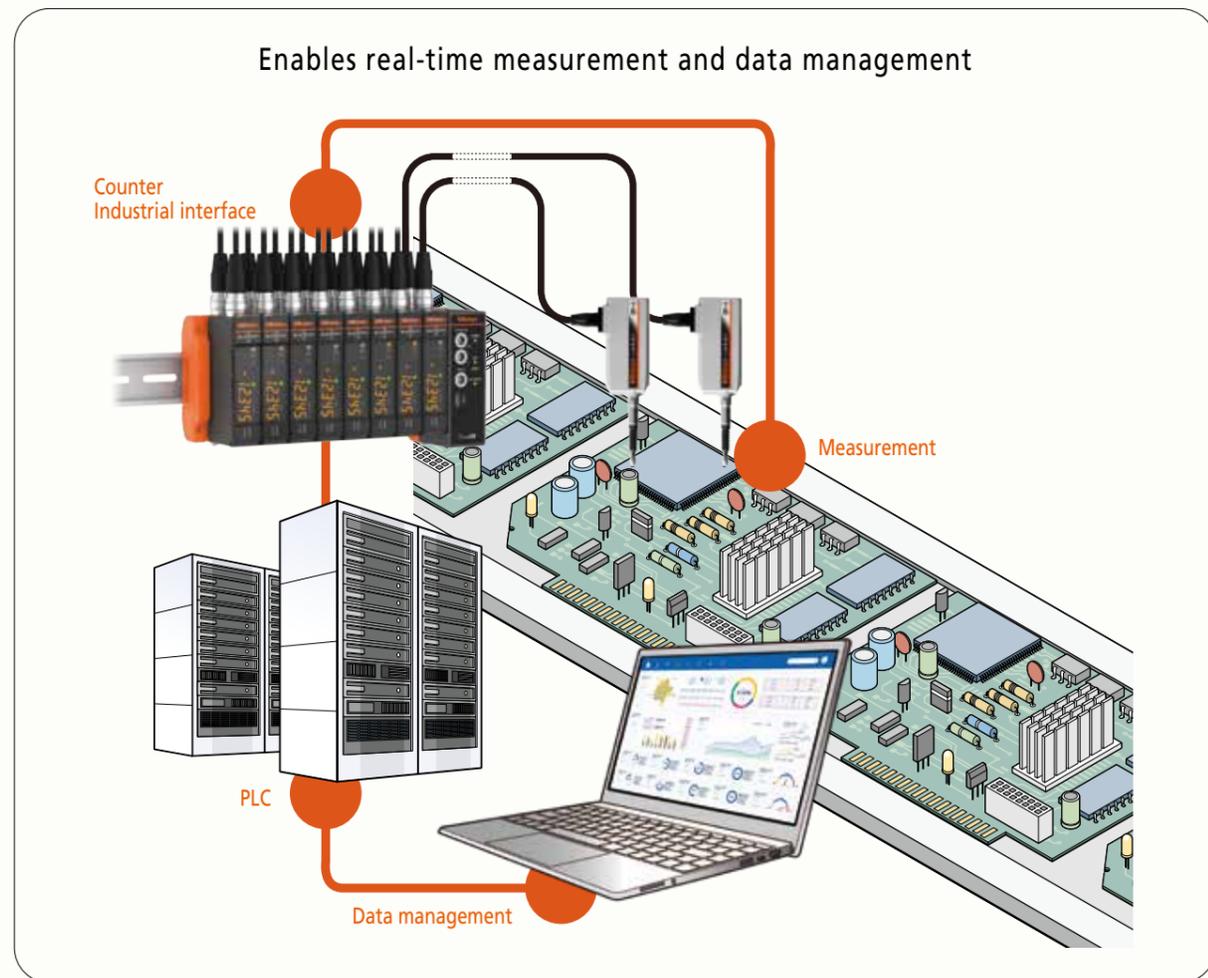
NEW
Products

IP67 G

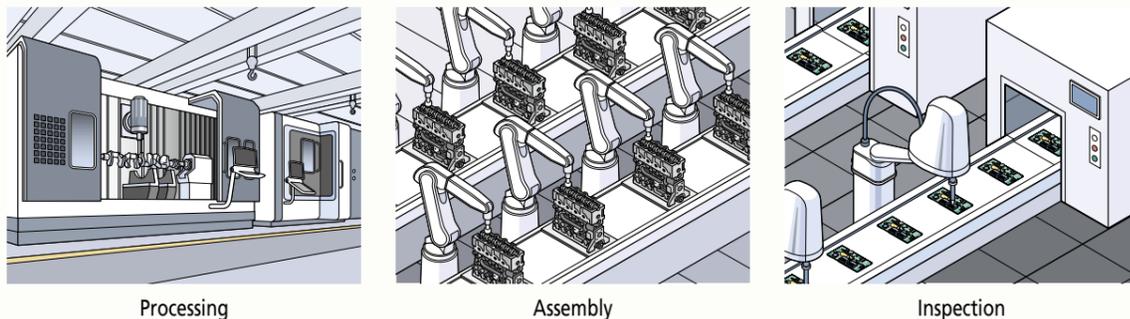
Can be used inline or in measurement rooms

Best-in-class precision and environmental resistance.

Enables real-time measurement and data management



Can be used in various production settings



Linear Gage LG100 Series



542-190/542-191/542-192
(10 mm stroke)

542-193/542-194/542-195
(25 mm stroke)

542-196/542-197
(50 mm stroke)



High accuracy

Precision and accuracy demanded by the automated assembly and inspection markets, are guaranteed. Thanks to our expertise as a manufacturer of measuring instruments, repeatability in the full measurement range (2σ) and narrow-range precision are also guaranteed.

Environment resistance

Sliding durability of more than 50 million times*, with protection level of IP67G. Highly oil-resistant material is used in the rubber cap and cable sheath, so it can be used even in harsh environments.

* 10 mm range models (Actual value from in-house tests)

Function of reference point detection

Reference point signal output functions are featured throughout this series. When incorporating into a device the master setting value is easy to set and is retained after shutdown. Re-setting the origin is possible when there are problems such as excessive speed, ensuring excellent reliability.

Can be connected with 2 types of counter

The ideal counter can be selected according to the application it can be connected to a compact counter (EJ counter) suitable for inline use or building into a device or a multifunctional counter (EH counter)* suitable for use in measurement rooms.

* A conversion plug is required for connecting to multifunctional counter (EH counter).

Combining small form and ease of use

High-speed and space-saving, delivering production site visualization, improved productivity, and information feedback. Up to 8 compact counters (EJ counters) can be linked providing the capacity to connect up to 16 gages. On a DIN rail, each unit can be connected directly without using cables, so it takes up minimal space. All linked units and gages can be driven by a single power source.

CC-Link connection, USB connection

Data can be output through an industrial interface (CC-Link) by linking a compact counter (EJ counter) with an interface unit. Constant data monitoring and positional management are performed. A USB interface is also provided for easy connection with a computer.

Note: The range of interfaces is set to be expanded in the near future.

Inter-axial calculation function

Enables sum difference operations between 2 gages connected to the same counter. Functions such as tolerance judgment and peak hold are also included.

Industrial interface-mounted compact counter EJ Series



System Configuration



*1 USB output of EH counter is specifically for SENSORPAK.

*2 A conversion plug is required for connecting to EH counter.

*3 Conventional gages can be connected using conversion connectors. (Please contact us for details of connectable gages.)

SOFTWARE

LG QuickSetupTool

A configuration tool is available for use with the EJ counter when connected via the optional USB interface. All kinds of settings normally carried out with counter operating keys can now be easily applied from a computer.

Measurement value display and operation results can also be viewed on a PC.

Note: This software can be used free of charge and downloaded from the Mitutoyo website. <https://www.mitutoyo.co.jp/eng/contact/products/lg/>

Parameter setting

Chart

General settings

Recommended system environment
 OS: Windows10 Pro 32 bit/64 bit
 Display: 1600x1200 or more
 Memory: 1024 MB or more
 Communication method: USB2.0 (Full speed)
 USB connector: Type C connector
 Note: USB device drivers are standard Windows drivers.

OPTIONS

Pneumatic lifter



For 10 mm range models: **02ADE230**
 For 25 mm range models: **02ADE250**
 For 50 mm range models: **02ADE270**

Rubber boot (spare)



For 10 mm range models: **21HAA331**
 For 25 mm range models: **21HZA176**
 For 50 mm range models: **21HZA184**

Thrust stem set/Spanner wrench



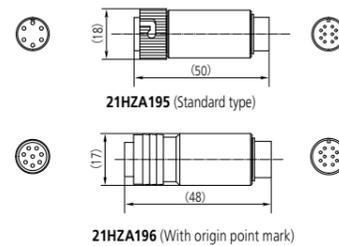
• Thrust stem set (Thrust stem, Clamp nut)
 For 10 mm range models: **02ADB680**
 For 25/50 mm range models: **02ADN370**
 • Spanner wrench
 For 10 mm range models: **02ADB683**
 For 25/50 mm range models: **02ADB693**

Extension cable



Extension cable 5 m: **21HZA197**
 Extension cable 10 m: **21HZA198**
 Extension cable 20 m: **21HZA199**
 Total length (gage to counter) must not exceed 20 m.

Conversion plug for connecting to EB/EG/EH/EV Counter



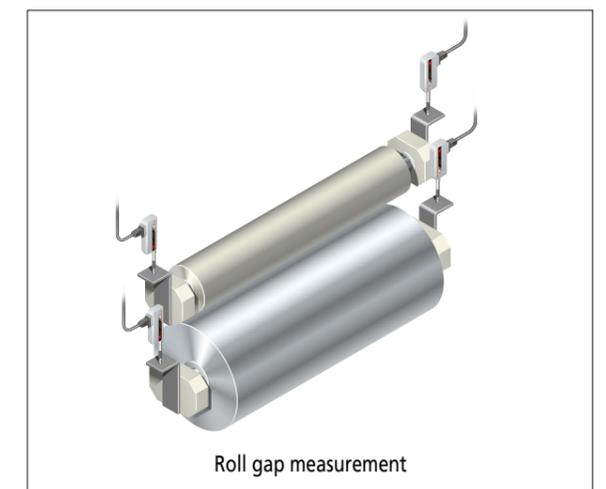
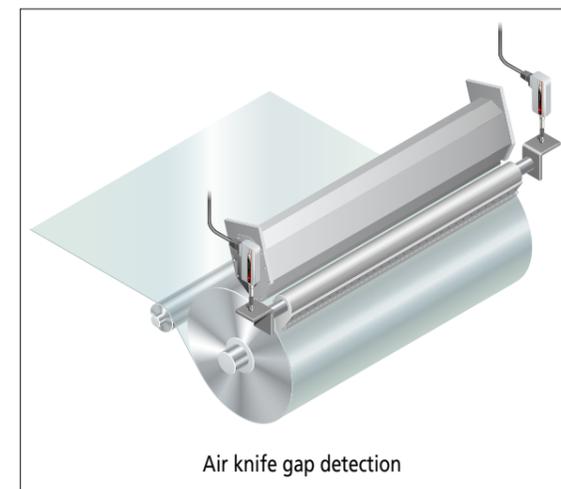
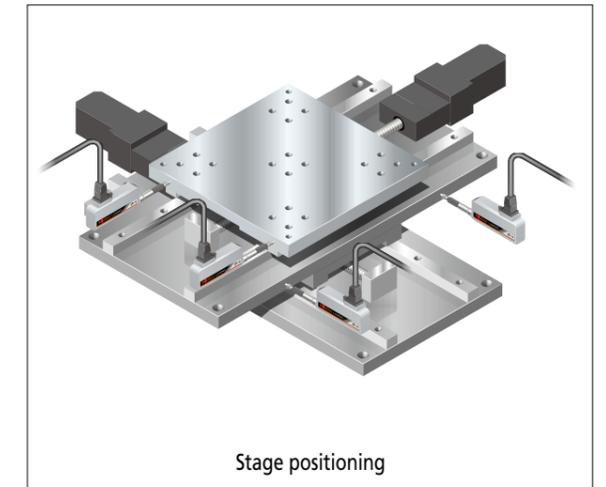
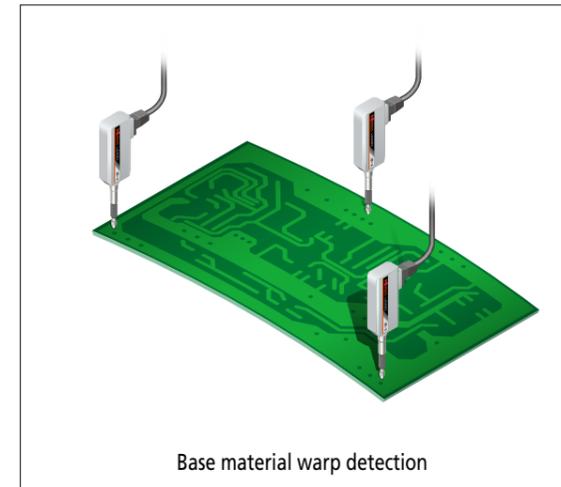
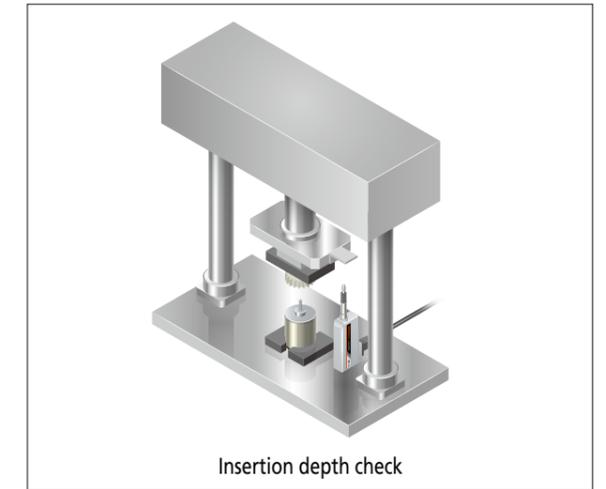
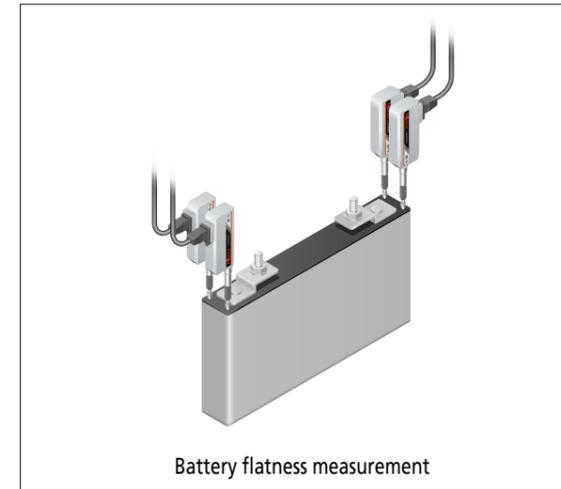
Equipped with the EH Counter

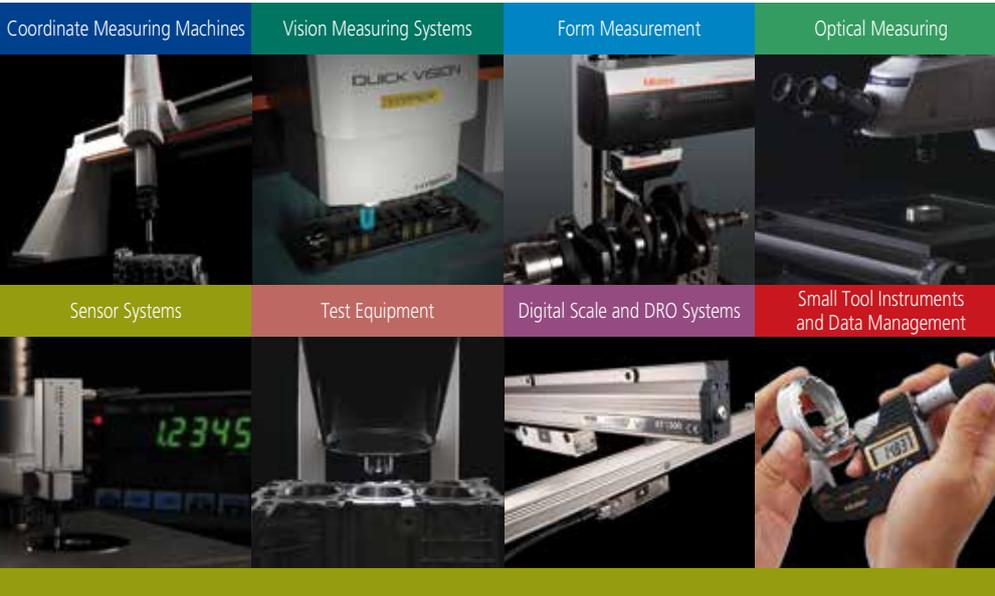


Standard type (for P counter): **21HZA195**
 With origin point mark (for Z counter): **21HZA196**

For details of other options, please check the Linear Gage Brochure No. **E13007**.

APPLICATION





Whatever your challenges are, Mitutoyo supports you from start to finish.

Mitutoyo is not only a manufacturer of top quality measuring products but one that also offers qualified support for the lifetime of the equipment, backed up by comprehensive services that ensure your staff can make the very best use of the investment.

Apart from the basics of calibration and repair, Mitutoyo offers product and metrology training, as well as IT support for the sophisticated software used in modern measuring technology. We can also design, build, test and deliver measuring solutions and even, if deemed cost-effective, take your critical measurement challenges in-house on a sub-contract basis.



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and our product catalogue

<https://www.mitutoyo.co.jp/global.html>

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