

References

This instrument is a Linear Gauge G-Item Resolution. To obtain the highest performance and the longest service life, follow the Linear Gauge carefully and the maintenance and repair instructions. For more reading this manual keep it near the Linear Gauge for quick reference. The specifications of this gauge and the descriptions in this manual are, as follows: Linear, 0.05-mm, without zero verification.

Safety Precautions

To ensure operator safety, use the instrument in conformance with the directions and specifications given in this User's Manual.



- If it is contact point with a sharp tip is used, exercise sufficient care in handling during replacement or use of it so as not to get hurt.
- If a contact point is released freely after it has been pressed in, the contact point may burst forth at a very high speed depending on the amount of spring travel. Sufficiently exercise care so that your fingers or hands may not be pinched.

Precautions for Use

Carefully guard the following attempts and conditions to protect the instrument from failure and malfunction:

IMPORTANT

- Do not apply sudden shocks, including a drop or excessive force to the linear gauge.
- Do not disassemble or modify the gauge.
- Do not use and store the gauge at sites where it is exposed to direct sunlight or at extremely hot or cold sites.
- To use the gauge highly accurately, avoid sites where the temperature will change abruptly.
- Absolutely do not apply an electric engraver to the gauge. Thin voltage may damage electronic parts.
- Also, do not use the gauge at sites where it is subject to large electric shocks.
- Do not touch or stand on the spindle or the spindle support in the perpendicular position of the spindle.
- Do not clamp the stem too tightly, since the spindle will not move smoothly.
- Do not apply excessive tension to the cable or do not bend it forcibly.
- To perform stable measurement, allow at least 10 minutes after turning on the power.
- Do not set up the origin point at either end of the stroke.
- If the gauge is used in conditions other than those specified, the maximum performance could not be obtained.
- Depending on the installation and operating conditions, take those conditions into consideration prior to use.
- The functions and performance will not be guaranteed, if the gauge is used in other conditions than those specified.
- Take sufficient damage-preventive processing (safety measures), should this gauge have been at fault.
- A contact point could hurt a workplace depending on the workplace material, measuring force, impact when the contact point comes in contact with the workplace, etc. Check that there is no problem of hurting a workplace during measurement or accuracy variation depending on the measuring force, etc.

Electromagnetic Compatibility (EMC)

This product complies with the EMC Directive. Note that in environments where electromagnetic interference exceeds EMC requirements defined in this directive, appropriate countermeasures are required to ensure the product's safe operation.

Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)



This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. To reduce the environmental impact of WEEE (Waste Electrical and Electronic Equipment) and minimize the volume of WEEE entering landfills, please reuse and recycle.

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Export Control Compliance

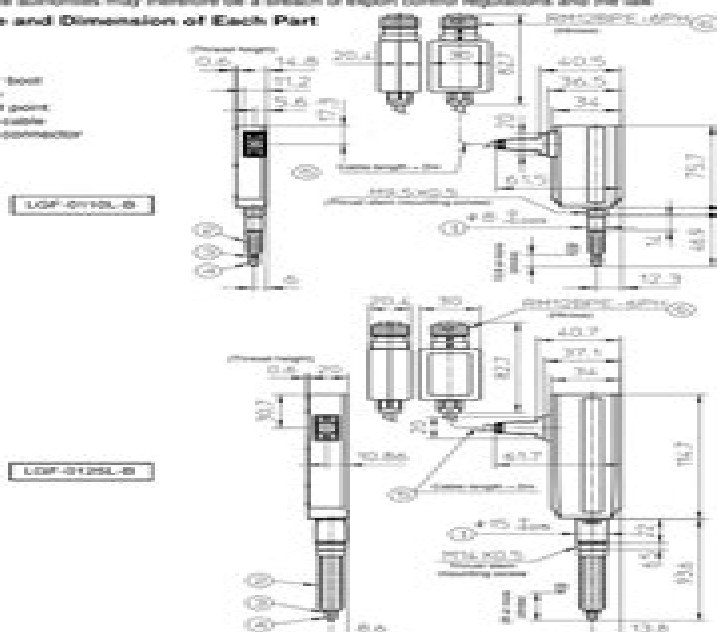
The goods, technologies or software described herein may be subject to National or International, or Japanese Export Controls. To export directly or indirectly such matter without due approval from the appropriate authorities may therefore be a breach of export control regulations, and the law.

1. Name and Description of Each Part

- ```

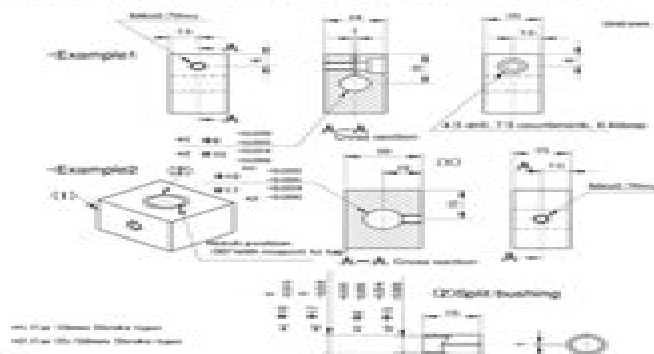
(1) Stream
(2) Sublayer Event
(3) Spindle
(4) Contact point
(5) Support quartz
(6) Subsidiary concretion

```



### 3. Microstructure After Quench

To mount the gage on another instrument or a fixture, clamp the 4-8 stem or 4-15 stem. It is recommended to use a slotted holder or a split bushing for the mount structure.



1000

- **Absolutely avoid** pressing the stem directly with self screws.  
(The built-in bearing may be damaged.)
- **Avoid** that excessively tightening the stem, can cause trouble in the spindle operation.
- **Never** fix a screw into the stem.
- **Mount** the gages ring so the spindle is directed perpendicular to the measured surface. If the gage is mounted at an angle to the measured surface, an error may be generated in measurement results.
- **Describe** shape, size and fix a mark on the work through the cable.



### 3. Precautions in Protecting the Gase from Dust and Water

**DISCUSSION**

- The output connector (gauge and preamplifier [counter-pole]) is not protective structured. Install the gauge at a place where it is not splashed directly with water or oil.
- If an extension-cable is used, completely cover the preamplifier and connector area with a seal to be not be exposed to environments.
- If the cable covering is broken, liquid will penetrate into the gauge inside due to capillary phenomenon. This will cause damage to the gauge. Immediately repair the cable.
- Be greatly careful not to damage the rubber boot due to chips, etc. If the rubber boot is damaged, dust-proof function will be deteriorated. Immediately replace or repair the rubber boot.
- The materials including rubber which are used for the rubber boot and other sealing parts are not universal against acids and chemicals. If those parts deteriorate unusually, consult the nearest Mitsuboshi Service Center.
- If linear gauges are used in adverse environments where they are subject to frequent splashes of water and oil, it is recommended to take preventive measures such as replacing them before being damaged.
- If the output cable is damaged, the gauge will not be repaired. If the output cable is damaged, the gauge will not be repaired. Do not attempt to repair the gauge. If the output cable is damaged, the gauge will not be repaired. Do not attempt to repair the gauge.

#### 4. Connecting the Dice to a Counter

Connect the output connector of the gage to the input connector on a linear gage counter. For detailed information, refer to the user's manual of the linear gage counter.

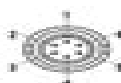
## DISCUSSION

- If the gage cable is close to the power line for other instruments, the gage may malfunction. Connect the gage cable apart from the power line as possible.
- If the gage is connected with other counter than 5000Hz mode, slow at least 0.2 second after the gage is turned on. Also, reset the counter.

### **B. Common Output Measures**

- 10) Output connection: 10A 120V 60Hz (Indoor)

| Pin No. | Signal name       | Pin No. | Signal name | Pin No. | Signal name |
|---------|-------------------|---------|-------------|---------|-------------|
| 1       | +5V <sub>CC</sub> | 3       | enb         | 5       | GND         |
| 2       | swA               | 4       | swB         | 6       | GND         |



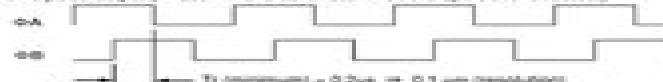
- ② Power supply to the gauge head  
Power voltage: 5W (4.85V to 5.15V),  
Ripple voltage: 200mVp-p or less,  
Current consumption: 100mA max.

- 2) Input/output signal level  
e.g. TTL, 0-5V, 0-10V, 0-2V (TTL line driver AD8265[3]) or equivalent

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This series of papers are provided with the following three patterns for their output signals. Therefore, always design the reception circuitry so that it includes an error detecting process making use of these

(A) Real-time pulsed output (Phase-B wave advances when the spindle is retracted).



- (1) Output condition: Spindle moving speed = Stage response speed  $\times 4$   
 (2) Minimum edge-to-edge interval of output pulses:  $T_1 = 0.2 \mu\text{s}$   
 (3) Output delay time<sup>2)</sup>: Max.  $2.5 \mu\text{s}$

# Mitutoyo Operating Manual

**ML Morrison**



## **Mitutoyo Operating Manual:**

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the Pharmaceutical Manufacturing System     Eureka ,2005     A Practical Guide to Surface Metrology Michael Quinten,2020-01-01 This book offers a genuinely practical introduction to the most commonly encountered optical and non optical systems used for the metrology and characterization of surfaces including guidance on best practice calibration advantages and disadvantages and interpretation of results It enables the user to select the best approach in a given context Most methods in surface metrology are based upon the interaction of light or electromagnetic radiation UV NIR IR and different optical effects are utilized to get a certain optical response from the surface some of them record only the intensity reflected or scattered by the surface others use interference of EM waves to obtain a characteristic response from the surface The book covers techniques ranging from microscopy including confocal SNOM and digital holographic microscopy through interferometry including white light multi wavelength grazing incidence and shearing to spectral reflectometry and ellipsometry The non optical methods comprise tactile methods stylus tip AFM as well as capacitive and inductive methods capacitive sensors eddy current sensors The book provides Overview of the working principles Description of advantages and disadvantages Currently achievable numbers for resolutions repeatability and reproducibility Examples of real world applications A final chapter discusses examples where the combination of different surface metrology techniques in a multi sensor system can reasonably contribute to a better understanding of surface properties as well as a faster characterization of surfaces in industrial applications The book is aimed at scientists and engineers who use such methods for the measurement and characterization of surfaces across a wide range of fields and industries including electronics energy automotive and medical engineering     **Information Modeling for Interoperable Dimensional Metrology** Y Zhao,T Kramer,Robert Brown,Xun Xu,2011-08-28 Dimensional metrology is an essential part of modern manufacturing technologies but the basic theories and measurement methods are no longer sufficient for today s digitized systems The information exchange between the software components of a dimensional metrology system not only costs a great deal of money but also causes the entire system to lose data integrity Information Modeling for Interoperable Dimensional Metrology analyzes interoperability issues in dimensional metrology systems and describes information modeling techniques It discusses new approaches and data models for solving interoperability problems as well as introducing process activities existing and emerging data models and the key technologies of dimensional metrology systems Written for researchers in industry and academia as well as advanced undergraduate and postgraduate students this book gives both an overview and an in depth understanding of complete dimensional metrology systems By covering in detail the theory and main content techniques and methods used in dimensional metrology systems Information Modeling for Interoperable Dimensional Metrology enables readers to solve real world dimensional measurement problems in modern dimensional metrology practices     **Greater Delaware Valley Regional Industrial Purchasing Guide** ,1987     *Quality Today* ,2003     Materials World ,2006

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