

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. The reading this manner keep it near the Linear Gauge for quick reference. The specifications of this gauge and the description in this manual are, as follows: Linear, 0.05 mm, without serial certification.

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 it is 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 hand may not be pinched.

Precautions for Use

Carefully avoid 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. Too high 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 workpiece depending on the workpiece material, measuring force, impact when the contact point comes in contact with the workpiece, etc. Check that there is no problem of hurting a workpiece 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.

Bitte beachten: Informationsdienste verlassen Kontakt immer nach Ablauf der Abrechnung.

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.

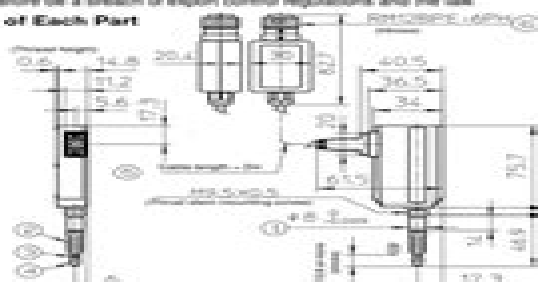
1. Names and Dispositions of Each Part

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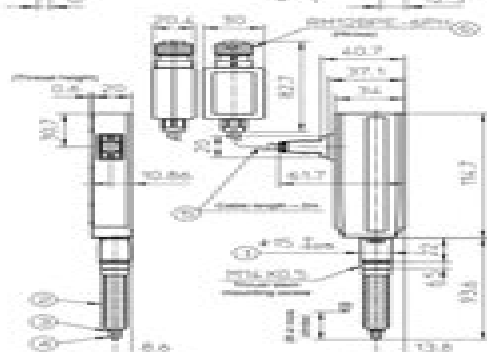
(1) Stream
(2) Sublayer Event
(3) Spindle
(4) Contact point
(5) Support quartz
(6) Subsidiary concretion

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1. *Journal of the American Medical Association*, 1997; 278: 1039-1044.

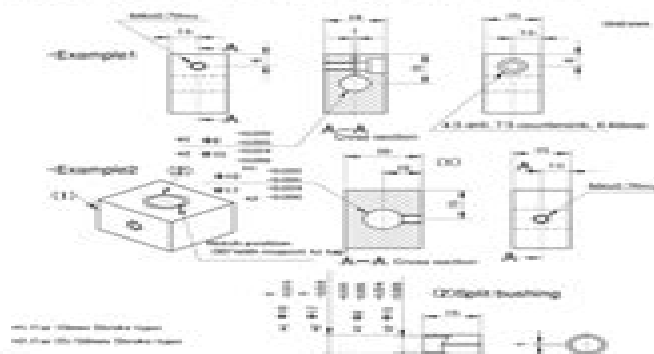


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### 3. Microstructure After Quench

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 fast excessively tightening the stem.** can cause trouble in the spindle operation.
- **Never fix a screw into the stem.**
- **Mount the gages so that 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 usage in a label.** In case a trace on the gauge through the cable.



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

**DISCUSSION**

- The output connector (high pressure amplifier) (counter-side) 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 amplifier 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 gauge is damaged, the output pressure will be lowered. If the output part is disconnected, the rated performance will not be guaranteed. Do not misidentify the responsibility for the proper

#### 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.

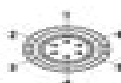
## DISCUSSION

- 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.

### **9. Class Output Summary**

- PC Output command: `RM -rf /tmp/` [Warning]

| Pin No. | Signal name       | Pin No. | Signal name | Pin No. | Signal name |
|---------|-------------------|---------|-------------|---------|-------------|
| 1       | +5V <sub>CC</sub> | 3       | 4-8         | 5       | GND         |
| 2       | GND               | 4       | 2-6         | 6       | 2-6         |



- 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 B2user Manual

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