

NEW

**kitagawa**

# Length Measurement Judgement System **MET**

In combination with a measuring gripper, it determines the dimensional quality and variability simultaneously with conveyance. Achieve factory automation at low cost.



## Features

- 1. No Specialized Knowledge Required**  
Professional programming knowledge is not necessary. The inspection system is easily built without relying on PLC experts, helping to reduce initial introduction costs.
- 2. Simple PC-Based Setup**  
Settings are easily configured on a familiar personal computer using the dedicated application. The intuitive operation allows the system to be mastered quickly by anyone.
- 3. Data Trend "Visualization"**  
Measurement data is judged in five stages, allowing immediate checking of trends such as tool wear or temperature changes. This contributes to maintaining consistent quality by preventing missed products that require rework.
- 4. Measurement of Up to 5 Points with a Single Unit**  
A maximum of five measurement points can be set per workpiece. The system accommodates the inspection of multiple measurement points simultaneously.
- 5. Thorough Measurement Data Management**  
Measurement data can be saved and output, which contributes to product traceability. Past data is readily available when needed, ensuring reliability.

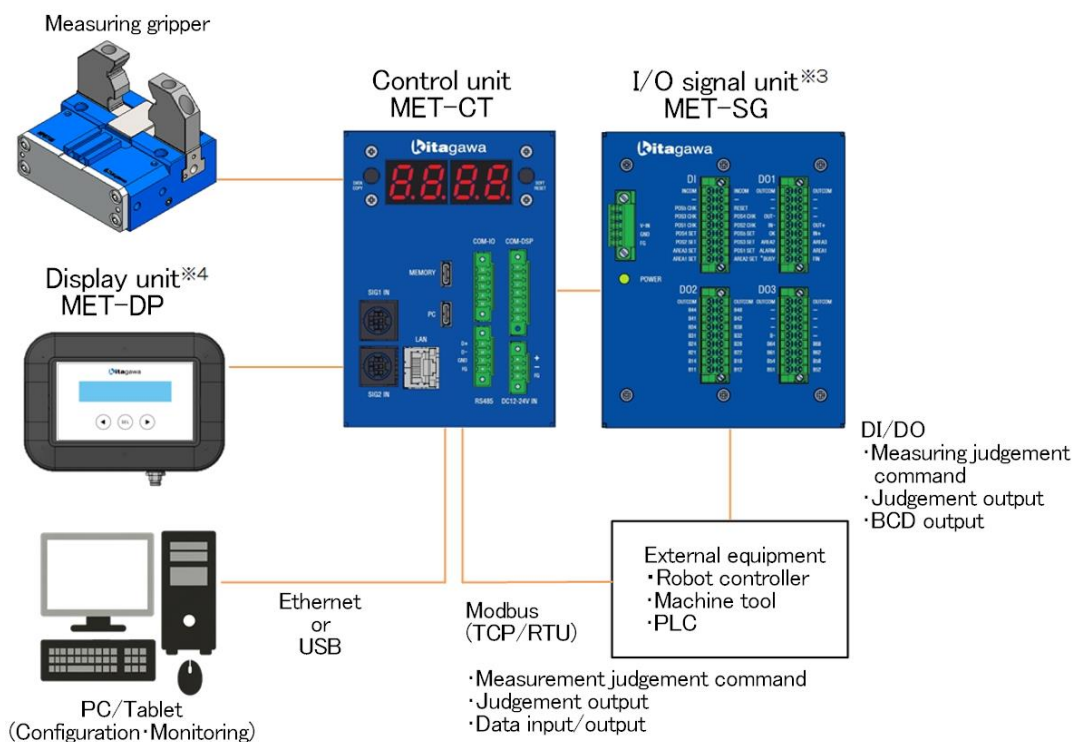
# MET specification

Item		Specification	
Applicable Standard		CE	
Power Supply Voltage		DC24V	
Function		<ul style="list-style-type: none"> <li>Numerical conversion of scale signal (Pulse → mm)</li> <li>Workpiece dimension conversion calculation considering the jaw shape (V-shape 2-jaw outer diameter measuring, 3-jaw inner diameter measuring)</li> <li>5 measuring positions (POS1 ~ 5)</li> <li>5-level judgement (OK / IN+ / IN- / OUT+ / OUT-)</li> <li>Measuring data (Measuring history) storage</li> </ul>	
External I/O	Modbus / TCP Modbus / RTU DI/DO ※1	<b>【Input】</b> <ul style="list-style-type: none"> <li>Reference position setting (POS1 ~ 5 SET)</li> <li>Output zone setting (AREA1 ~ 3 SET)</li> <li>Measuring judgement command (POS1 ~ 5 CHK)</li> <li>Alarm reset (RESET)</li> </ul>	<b>【Output】</b> <ul style="list-style-type: none"> <li>Measured value</li> <li>Judgement result (OK / IN+ / IN- / OUT+ / OUT-)</li> <li>In-range signal output (AREA1 ~ 3)</li> <li>Alarm (*ALARM)</li> <li>BUSY status (*BUSY)</li> </ul>
	USB (MEMORY)	<b>【Input】</b> <ul style="list-style-type: none"> <li>Firmware update</li> </ul>	<b>【Output】</b> <ul style="list-style-type: none"> <li>Measuring history (CSV)</li> <li>Alarm history (CSV)</li> <li>Parameter list(CSV)</li> </ul>
Display Content		<ul style="list-style-type: none"> <li>Judgement result (POS1 ~ 5)</li> <li>Alarm status, Alarm number</li> <li>Internal status</li> <li>Measured value ※2</li> </ul>	

※1: Function available when an I/O signal unit is connected.

※2: Function available when a display unit is connected.

## System Configuration



※3: Select the I/O signal unit as required, according to the connection method of the external equipment.

※4: The display unit is not required, but its use is recommended to check information.

Kitagawa product technical information is available on the Kitagawa Web Showroom.  
<https://prod.kiw.co.jp/exhibition/mttools/en/>



**kitagawa**

<https://www.kiw.co.jp>

<https://www.kitagawa.com>

<https://www.kitagawa.com.cn>

**Kitagawa Corporation**

**Kitagawa Global hand Company**

77-1 Motomachi, Fuchu-shi, Hiroshima-pref. 726-8610, Japan Tel. +81 847-40-0561

• Product specifications and appearance are subject to change without notice due to ongoing research and development.  
 • The color of the actual product may be different from the catalogue's due to printing matters.  
 • Catalog information is current as of Oct. 2025

• The products listed in this document are subject to control under the Japanese Foreign Exchange and Foreign Trade Control Act.  
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2nd edition