Wireless Measurement Data Communication System
U-WAVE
Promotes the Smart Factory by Collecting and Managing Measurement Data

“U-WAVE”, the wireless communication system, collects measurement data in the inspection process swiftly and accurately, to increase a company’s competitiveness with detailed data analysis. With MeasurLink, “IIOT* of Quality Control envisioned by Mitutoyo” can be achieved.

*Industrial Internet of Things

Achieve Smart Measurement

Wireless Measurement Data Communication System

U-WAVE

This system transmits data wirelessly from Mitutoyo Digimatic gages to SPC software or any software that accepts keyboard input, such as MeasurLink, Excel, or web browser. It saves time, eliminates typos, helps achieve cost reductions and better efficiency while maintaining excellent operability.

U-WAVE fit

Compared to U-Wave T*, the compact and thin design provides better operability and fit to digimatic micrometers and calipers**

*please refer to page 8 for more details

**excludes micrometers and calipers over 12”, MDH, Quick Mike, and some specialty hand tools

Data is obtained via wireless communication and sent to commercial software such as Excel or MeasurLink

From a Digimatic gage connected with U-WAVE
U-WAVE resolves measuring process issues!

**Issue**
Manual input of measurement data is inefficient and frequently generates mistakes in entering data (i.e. transposing number, missing decimal, etc.)

**Solution**
U-WAVE immediately transmits the measurement data to your PC. Errors due to manual input can be eliminated, and therefore data reliability and operational efficiency is improved.

**Issue**
Wireless data transmission is unreliable in a noisy, industrial environment.

**Solution**
U-Wave boasts industry leading signal transmission and has been tested in poor conditions, proven to maintain strong signal connection.

**Issue**
Since multiple operators use Digimatic gages, it takes a long time for data collection and Pass/fail judgment.

**Solution**
Up to 100 Digimatic gages can be registered to a single U-WAVE receiver on the PC side. The data can automatically be entered separately in the Excel sheet. Therefore, data collection and Pass/fail judgment are easily performed.
Speedy and Reliable Data Collection Judgment Improves Manufacturing Competitiveness

**Higher Efficiency**

### Conventionally...

1. Measure
2. Data is displayed
3. Manually record data
4. Transfer data to PC
5. Input by keyboard

### If U-WAVE is used...

1. Measure
2. Data is displayed
3. Load data to PC by push button operation

### No typing inaccuracies and time is saved!

**LED or a buzzer**

- Normally received: green LED blinks
- Buzzer sounds twice briefly
- Reception failed: red LED blinks
- Buzzer sounds once

**Dustproof and water resistant IP67 model**

- The buzzerless transmitter can be submerged in water and is completely resistant to dust, maintaining the highest IP rating of the gage.

**Cordless enables freedom of movement**

- No cord allows easy operation especially with large measuring tools, workpieces, and distant computers.

**Wireless communication range up to 60ft*1 (line of sight)**

- The measurement site can be laid out freely.
- *1: May be less according to the operating environment.

**Typing errors generated by manual input is eliminated**

- The measurement data can be transmitted directly by a single button operation.

**Industrial wireless communication**

- Mitutoyo’s original wireless communication based on IEEE802.15.4 (2.4 GHz) has been adopted.

---

*IP*67

---

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Centralized Data Management

Operation in an Excel sheet

The data can be read directly from an Excel sheet.

Digitalization enables easy data collection and analysis

The measurement data from each process can be stored and managed on a central database with MeasurLink.

Up to 100 Digimatic gages can be registered to a single U-Wave Receiver

Using MeasurLink or USB-ITPAK V2.1, data can be laid out for each Digimatic gage based on the data identification ID.

Up to 15 receivers can be connected to a PC or multiple PCs

Data can be collected up to 1,500 measuring instruments equipped with Digimatic output on a central database.

Cost Reduction Effect

If a Digimatic gage is damaged, operation can be continued using a different gage

The transmitter can be reconnected to a different Digimatic gage.

Connectable to any of your existing Digimatic SPC gages

No need to buy a replacement if your tool is equipped with the Digimatic function.

Approximately 400,000 continuous data transmissions are possible

Just one CR2032 lithium battery provides power for about 400,000 data transmissions.
Product Configuration

(Refer to pages 7 and 8 for details.)

**Receiver**

- **U-WAVE-R**
  - Receives measurement data and transmits to the PC via USB.
  - Since USB bus power system is used, a battery or adapter is not required.
  - The ID and frequency can be set using supplied software U-WAVEPAK.
  - The data load function to Excel, etc. is supplied as a standard accessory.

**Transmitters**

- **U-WAVE-TM/TC/T**
  - Transmits the measurement data displayed on the gage to U-WAVE-R.
  - Compact, cable-less design provides a better fit with the Digimatic gage and better operability.

**Connecting unit/connecting cable**

- A compact connecting unit connects the U-WAVE-TM/TC transmitter to the Digimatic gage.
- A dedicated cable connects the U-WAVE-T transmitter to the Digimatic gage.

**Digimatic gages**

- **Compatibility**
  - U-WAVE-TM/TC can be used with most of the calipers and micrometers equipped with the Digimatic output function.
  - U-WAVE-T can be used with all the Digimatic gages equipped with the Digimatic output function.
U-WAVE-TM/TC compatible Digimatic gages (reference)

For details, refer to a separate sheet “U-WAVE-TM/TC Compatible Devices” or our web site.

Digimatic micrometer

Digimatic caliper
Transmitters

**U-WAVE-TM/TC**

With functions and performance inherited from U-WAVE-T, a compact and thinner design provides a neater solution which eliminated cables around the Digimatic gage and for better operability!

For micrometers

**U-WAVE-TM**

For calipers

**U-WAVE-TC**

U-WAVE-TM for micrometers and U-WAVE-TC for calipers are available, both as the buzzer type and water/dust-proof IP67 type. The buzzer type notifies the normal reception of data by LED and buzzer sound. The water/dust-proof IP67 type is designed for a harsh environment and as such is only equipped with LED notification of data reception.

---

**Connecting compatible micrometers, calipers and other Digimatic gages to U-WAVE**

<table>
<thead>
<tr>
<th>Gage</th>
<th>Assembled appearance</th>
<th>Connecting unit/connecting cable</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>For micrometers</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Standard</td>
<td><img src="image1" alt="Front" /> <img src="image2" alt="Back" /></td>
<td><img src="image3" alt="Connecting unit" /></td>
</tr>
<tr>
<td>Water/dust-proof</td>
<td><img src="image4" alt="Front" /> <img src="image5" alt="Back" /></td>
<td><img src="image6" alt="Connecting unit" /></td>
</tr>
<tr>
<td><strong>For calipers</strong></td>
<td><img src="image7" alt="Front" /> <img src="image8" alt="Back" /></td>
<td><img src="image9" alt="Connecting unit" /></td>
</tr>
<tr>
<td>Standard</td>
<td><img src="image10" alt="Front" /> <img src="image11" alt="Back" /></td>
<td><img src="image12" alt="Connecting unit" /></td>
</tr>
<tr>
<td>Water/dust-proof</td>
<td><img src="image13" alt="Front" /> <img src="image14" alt="Back" /></td>
<td><img src="image15" alt="Connecting unit" /></td>
</tr>
<tr>
<td><strong>Digimatic gages</strong></td>
<td><img src="image16" alt="Connecting cable*" /></td>
<td></td>
</tr>
</tbody>
</table>

* Select according to the Digimatic gage to be connected. Refer to page 13 for connecting cables.
### U-WAVE-T

This product successfully introduced U-WAVE to the industry.

The buzzer type and water/dust-proof IP67 type are available. The buzzer type notifies the normal reception of data by LED and buzzer sound. The water/dust-proof IP67 type is designed for a harsh environment and as such is only equipped with LED notification of data reception.

#### Transmitter

<table>
<thead>
<tr>
<th>Transmitter</th>
<th>Receiver</th>
</tr>
</thead>
<tbody>
<tr>
<td>U-WAVE-TM With buzzer 264-623</td>
<td>U-WAVE™</td>
</tr>
<tr>
<td><strong>IP67</strong> U-WAVE-TM Water/dust-proof 264-622</td>
<td>U-WAVE™</td>
</tr>
<tr>
<td>U-WAVE-TC With buzzer 264-621</td>
<td>U-WAVE™</td>
</tr>
<tr>
<td><strong>IP67</strong> U-WAVE-TC Water/dust-proof 264-620</td>
<td>U-WAVE™</td>
</tr>
<tr>
<td>U-WAVE-T With buzzer 02AZD880G</td>
<td>U-WAVE™</td>
</tr>
<tr>
<td><strong>IP67</strong> U-WAVE-T Water/dust-proof 02AZD730G</td>
<td>U-WAVE™</td>
</tr>
</tbody>
</table>

U-WAVE-T is connected to a Digimatic gage with a dedicated cable that mates with the data connector on that particular gage.

![Image of U-WAVE-T and Digimatic gage](image-url)
Typical Measuring Issues Solved

In combination with application software MeasurLink or USB-ITPAK V2.1, better efficiency in quality assurance can be achieved.

### Case 1

**Standard sequential measurement input**

**Issue**
To record the measurement results, on a chart, from three points on a mass-produced product measured using two gages.

**Solution**
Set the procedure of inputting data to the Excel sheet with USB-ITPAK V2.1, to automatically enter measurement data.

---

Measure the workpiece dimensions, X and Y, with a micrometer. Then, measure H with a caliper. Finally, visually check the appearance and judge OK or NG. Perform the above for 5 workpieces consecutively.

**Measurements in order**
The designated table will be created by measuring and transmitting data for X and Y of 5 workpieces, measuring and transmitting data of H, and then entering the result of visual check.

1. **Point**
   Measure X and Y for 5 workpieces with a micrometer.

2. **Point**
   Measure H for 5 workpieces.

3. **Point**
   Enter “OK” or “NG” for the visual check.

**Set the sequential measurement input order**
Designate the Excel sheet, select the data loading range, loading order, and allocate the ID for each cell.

**Designated Excel sheet**
Data will be input one by one in the registered order to the cells of the Excel sheet designated beforehand.

---

**Option**

**USB-ITPAK V2.1**
USB-ITPAK V2.1 is optional software to be installed in the PC connected with U-WAVE-R. It enables setting up the procedure to input the measurement data received from U-WAVE-R to the Excel sheet and to achieve greater inspection efficiency and enhanced credibility.

**Measurement Data Collection Software**

**USB-ITPAK V2.1**

The combined use with U-WAVE will improve the operational efficiency of the inspection work.

Best suited for recording data in mass-production inspections where the procedure is repeated every day.

MeasurLink® is a registered trademark of Mitutoyo Corporation in Japan and Mitutoyo America Corporation in the United States.
**Case Study 2**

**Data input by multiple operators**

**Issue**
To sort data into separate Excel sheets per Digimatic gage in the inspection process.

**Solution**
The data collected by multiple operators can be individually set to be input to the designated cells in the Excel sheet.

- **Input data of each Digimatic gage in order into the designated cells of the separate Excel sheet.**

  - **Point**
    - Up to 100 Digimatic gages can be registered
    - 100 Digimatic gages at maximum can be registered to a receiver and the same number of Excel sheets can be designated.

  - **Point**
    - Designate the Excel sheet per Digimatic gage
    - Using USB-ITPAK, designate the Excel sheet per Digimatic gage. Then, same as the sequential measurement, select the data loading range, loading order, and allocate the IDs.

  - **Point**
    - Multiple measurement data (via U-WAVE-TM/TC/T) can be sorted into the separate Excel sheets without requiring you to program macros.

**Features of USB-ITPAK V2.1**

- The measuring methods can be configured, such as sequential measurement, batch measurement, individual measurement and more.
- Data can be canceled by a single operation of the foot switch or function key.
- Input range can be specified per Digimatic gage, which reduces the chance of a misinput.
- Data input or cancellation can be instructed globally in multiple-point simultaneous measurement.
- The Excel sheet can be automatically called for data input.
- The cursor movement after data input can be set to enable automatic input.
Data can be obtained globally by a foot switch operation.

Batch measurement with all the Digimatic gages

Using USB-ITPAK, the data request interval can be set by hours, minutes, and seconds (0.0 sec. to 24 hrs.).

Timer input option

Data can be obtained at the desired interval using the timer input function in batch measurement.

Batch timer input

To measure displacement using multiple Digimatic gages and automatically obtain data in a certain input interval.

Batch measurement using timer

Batch timer input is available using the USB-ITPAK batch measurement function and the optional timer input function.

Specify the interval for measuring the displacement of the workpiece and collect data at once.

Batch measurement with all the Digimatic gages

Data can be obtained globally by a foot switch operation.

Timer input option

Using USB-ITPAK, the data request interval can be set by hours, minutes, and seconds (0.0 sec. to 24 hrs.).

Batch timer input

Data can be obtained at the desired interval using the timer input function in batch measurement.

Specifying the interval for measuring the displacement of the workpiece and collecting data at once.

Batch measurement with all the Digimatic gages

Data can be obtained globally by a foot switch operation.

Timer input option

Using USB-ITPAK, the data request interval can be set by hours, minutes, and seconds (0.0 sec. to 24 hrs.).

Batch timer input

Data can be obtained at the desired interval using the timer input function in batch measurement.

Option

Special order U-WAVEPAK (Event drive)

Responds to data request from PC

Using event drive mode

① For configuration, special order software U-WAVEPAK (Event drive) is used.
② The data request command can be sent to U-WAVE-R at an arbitrary timing.

Responds to data request command

① U-WAVE-TM/TC/T checks the displayed value of the Digimatic gage in the 0.5 sec. interval, and transfers data if the value is changed.
② U-WAVE-R overwrites data in the storage.
③ Sends data responding to the data request command.

Enables automatic data load

Without operating the send button of the Digimatic gage, data can be obtained automatically from multiple Digimatic gages.
Achieve “Visualization of Quality”

Collecting the measurement data
Measurement Data Wireless Communication System
U-WAVE

IloT of Quality Control
Measurement Data Network System
MeasurLink

Configure the measurement system with MeasurLink using U-WAVE as the base for Smart Measurement

The benefits of MeasurLink®
MeasurLink is an IloT platform for quality management that realizes “Visualization of Quality” by enabling real-time data collection with easy to see charts and statistics. From the networked Digimatic gages to global control and analysis, U-Wave supports MeasurLink as an infrastructure that collects and controls data.

Preventing defectives
Collects data from the Digimatic gages on the network and performs statistical process control (SPC) to warn of possible generation of defectives.

Diagnosis by data analysis
Check measurement results by accessing the data base and perform various analyses to help investigate and resolve process performance concerns.

Begin achieving IloT
In addition to conventional data storage, the network can be configured in steps to begin IloT of Quality Control.

Linkage between U-WAVE and MeasurLink

The Linkage between U-WAVE and MeasurLink is shown in the diagram below. The data collection software MeasurLink Real-Time collects data from each tool and instrument and still allows real-time display of statistical processing data such as control charts, histograms and process capability indexes.

Data Collection Software
MeasurLink Real-Time
This SPC software allows data collection from each tool and instrument and still allows real-time display of statistical processing data such as control charts, histograms and process capability indexes.

Process Management for Administrators
MeasurLink Process Manager
This administrative software enables centralized monitoring of information from all MeasurLink data collection terminals networked together on the shop floor.

Process Analysis module for Administrators
MeasurLink Process Analyzer
This administrative software allows confirmation of measurement results and various statistical analyses by access to the database where the measurement data collected with MeasurLink Real-Time is stored.

Gage Management Software
MeasurLink Gage Management
This software plans and implements a complete calibration schedule and incorporates a powerful retrieval function in addition to recording and managing the operational status of gages.

Evaluation / Analysis Software for Measurement System Analysis (MSA)
MeasurLink Gage R&R
This is evaluation and analysis software compliant with the MSA* required in ISO/TS 16949. *Measurement System Analysis

Measurement data → Collect data → Unify → Analyze → Visualize

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# Specifications

**Transmitter** (Refer to page 7 for combinations.)

<table>
<thead>
<tr>
<th>Product name</th>
<th>U-WAVE-TM (for micrometers)</th>
<th>U-WAVE-TC (for calipers)</th>
<th>U-WAVE-T</th>
<th>U-WAVE-R</th>
</tr>
</thead>
<tbody>
<tr>
<td>Order No.</td>
<td>264-622</td>
<td>264-623</td>
<td>264-620</td>
<td>264-621</td>
</tr>
<tr>
<td>Protection level</td>
<td>IP67</td>
<td>N/A</td>
<td>IP67</td>
<td>N/A</td>
</tr>
<tr>
<td>Data reception indication</td>
<td>LED</td>
<td>LED, buzzer</td>
<td>LED</td>
<td>LED, buzzer</td>
</tr>
<tr>
<td>Power supply</td>
<td>Lithium battery CR2032 × 1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Battery life</td>
<td>Approximately 400,000 transmissions</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mass</td>
<td>18g</td>
<td>23g</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>External dimensions</td>
<td>27.15(14.8)</td>
<td>21.8(19.6)</td>
<td>17.65(12.75)</td>
<td>27.15(19.6)</td>
</tr>
</tbody>
</table>

**Receiver**

<table>
<thead>
<tr>
<th>Product name</th>
<th>U-WAVE-R</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>U-WAVE-R</td>
</tr>
<tr>
<td>Order No.</td>
<td>02AZD810D</td>
</tr>
<tr>
<td>Power supply</td>
<td>USB bus power system</td>
</tr>
<tr>
<td>Connectable U-WAVE-R units (per PC)</td>
<td>Up to 15</td>
</tr>
<tr>
<td>Mass</td>
<td>130g</td>
</tr>
<tr>
<td>Appearance</td>
<td></td>
</tr>
<tr>
<td>External dimensions</td>
<td>80(31.6)</td>
</tr>
</tbody>
</table>

*U-WavePak comes standard with each Uwave-R to manage hardware and incoming data. Compatible OS: Windows 2000 Professional (SP2 or later) / Windows XP / Home Edition (SP2 or later) / Windows XP Professional (SP2 or later) / Windows Vista / Windows 7 / Windows 8 / Windows 8.1 / Windows 10 (*compatible with 32/64-bit OS)

**Connecting unit/connecting cable** (Refer to page 7 for combinations.)

<table>
<thead>
<tr>
<th>Product name</th>
<th>Order No.</th>
<th>Protection level</th>
<th>Mass</th>
<th>Appearance</th>
<th>External dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connecting unit (for water/dust-proof type)</td>
<td>02AZF310</td>
<td>IP67</td>
<td>6g</td>
<td></td>
<td>(mm)</td>
</tr>
<tr>
<td>Connecting unit (for standard type)</td>
<td>02AZF300</td>
<td>N/A</td>
<td>6g</td>
<td></td>
<td>(mm)</td>
</tr>
<tr>
<td>Dedicated cable for U-WAVE-T</td>
<td>Appearance</td>
<td>A Water-proof type with output button</td>
<td>02AZD790A</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>B Water-proof type with output button</td>
<td>02AZD790B</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>C With data-out button</td>
<td>02AZD790C</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>D Flat 10-pin type</td>
<td>02AZD790D</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>E Round 6-pin type</td>
<td>02AZD790E</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>F Flat straight type</td>
<td>02AZD790F</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>G Flat straight waterproof type</td>
<td>02AZD790G</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Wireless Communication Specifications

<table>
<thead>
<tr>
<th>Wireless communication</th>
<th>Original (based on IEEE 802.15.4 (2.4 GHz))</th>
<th>Modulation method</th>
<th>DS-SS (Direct Sequence - Spread Spectrum) Resistant to interfering signals and noise</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wireless communication distance</td>
<td>20 m (line of sight)</td>
<td>Communication frequency</td>
<td>2.4 GHz band (ISM band: Universal frequency)</td>
</tr>
<tr>
<td>Wireless communication speed</td>
<td>250kbps</td>
<td>Used band</td>
<td>15 channels (2.405 to 2.475 GHz at intervals of 5 MHz)</td>
</tr>
<tr>
<td>Transmission output</td>
<td>U-WAVE-T: 1 mW (0 dBm) or less U-WAVE-TC/TM: 2.5 mW (4 dBm) or less</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: This product is a radio equipment classified in the 2.4 GHz Wide-band Low Power Data Communication System. To use this product, conformity to the radio law of each country is required. Please contact your dealer or nearest Mitutoyo sales office.

### Optional Products

#### Application system

<table>
<thead>
<tr>
<th>Product name</th>
<th>Model No.</th>
<th>Compatible OS: Windows*</th>
<th>Compatible Excel version*</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>USB-ITPAK</td>
<td>USB-ITPAK V2.1</td>
<td>2000 SP4 XP SP2 or later Vista 7 8 8.1 10</td>
<td>2000 2002 2003 2007 2010 2013 2016</td>
<td>06AFM386</td>
</tr>
<tr>
<td>U-WAVEPAK (for event drive)</td>
<td></td>
<td>This is a special order product. For the latest pricing, please contact your dealer or the nearest Mitutoyo Service Center. Product configuration: Only the program CD ● For U-WAVE-T and U-WAVE-TC/TM, please purchase the standard model. ● Install this special order U-WAVEPAK (event drive) and perform setups without using the standard accessory U-WAVEPAK. ● A program to send a data request command is separately required to load data to the PC. &lt;Event drive supporting software&gt; USB-ITPAK V2.1 (manual input by the function key or foot switch and automatic timer input enabled)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>*1: 32-bit, 64-bit OS supported</td>
<td>*2: The operation with Excel for MAC OS is not guaranteed.</td>
<td></td>
</tr>
</tbody>
</table>

### Accessories for U-WAVE-T

<table>
<thead>
<tr>
<th>Product name</th>
<th>Product configuration</th>
<th>Foot switch</th>
<th>Order No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>U-WAVE-T</td>
<td>A Water-proof with switch</td>
<td>937179T</td>
<td>02AZE140A</td>
</tr>
<tr>
<td>Foot switch and connecting cable</td>
<td>B Water-proof with switch</td>
<td></td>
<td>02AZE140B</td>
</tr>
<tr>
<td>Foot Switch Type</td>
<td>C With switch</td>
<td></td>
<td>02AZE140C</td>
</tr>
<tr>
<td>Connecting Cable</td>
<td>D 10-pin plain</td>
<td></td>
<td>02AZE140D</td>
</tr>
<tr>
<td>Connector type</td>
<td>E 6-pin round</td>
<td></td>
<td>02AZE140E</td>
</tr>
<tr>
<td></td>
<td>F Straight type</td>
<td></td>
<td>02AZE140F</td>
</tr>
<tr>
<td></td>
<td>G Water-proof straight type</td>
<td></td>
<td>02AZE140G</td>
</tr>
</tbody>
</table>

### Accessories for U-WAVE-T (Installation Bracket Kit)

<table>
<thead>
<tr>
<th>Product name</th>
<th>Appearance</th>
<th>Dimensions and fixing example</th>
<th>Order No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>U-WAVE-T</td>
<td></td>
<td>Hole to allow U-WAVE-T unit's battery to be replaced while the unit is still attached to the mounting plate</td>
<td>02AZE200</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Hole for connecting cable One fastener affixed to this surface</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Digimatic Indicator ID-C112XB</td>
<td></td>
</tr>
</tbody>
</table>

*Note: This product is a radio equipment classified in the 2.4 GHz Wide-band Low Power Data Communication System. To use this product, conformity to the radio law of each country is required. Please contact your dealer or nearest Mitutoyo sales office.*
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 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.