

μ MATE⁺

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μ MATE+EA01C

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μMATE+

High accuracy measurements in a compact form developed using two new core technologies

Backlash error is reduced by using a unique mechanical system (AL link).

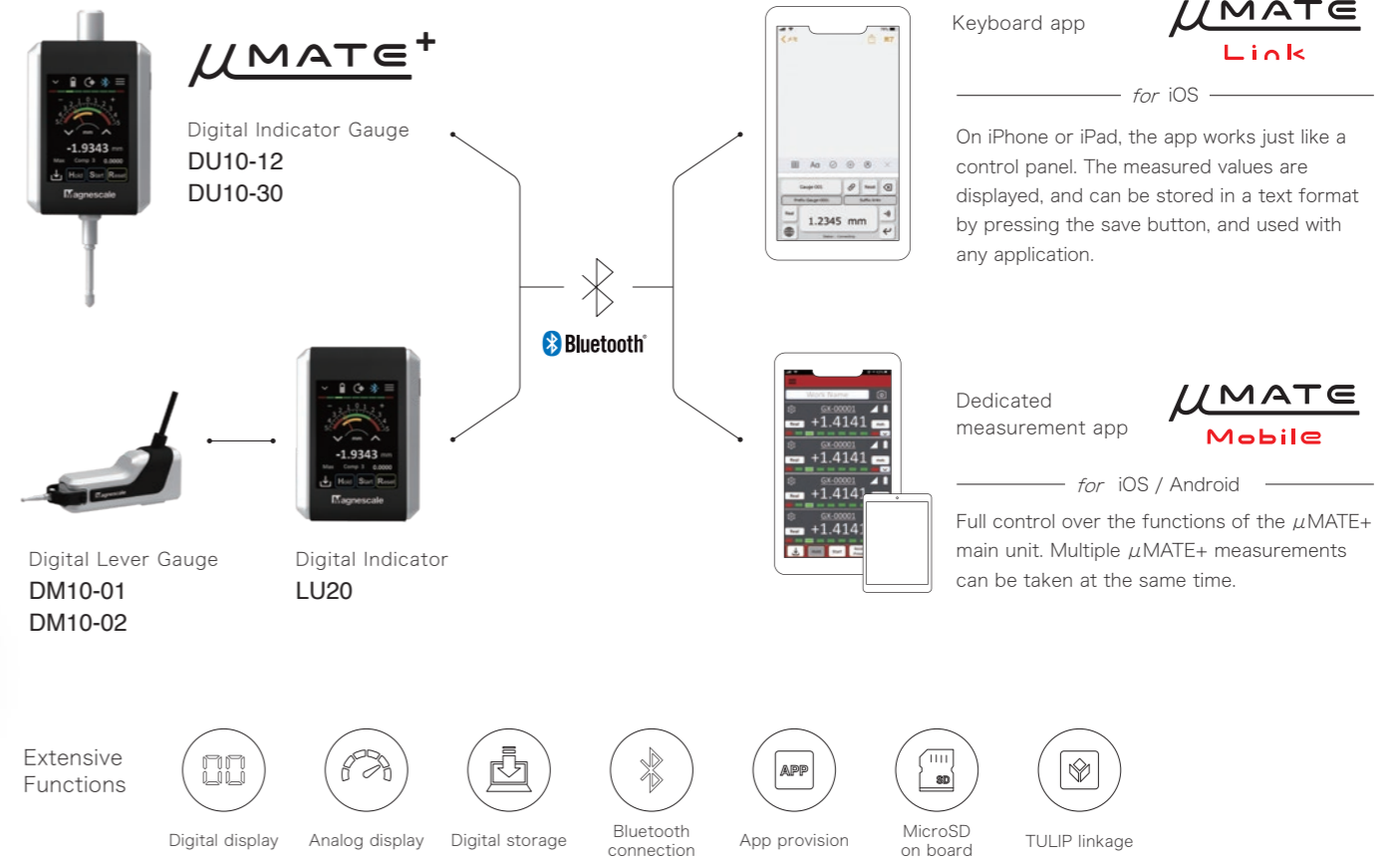
Adopts an ID sensor that measures inductance for position detection. ABS values can be easily accessed with minimal configuration.

[Resolution] [Accuracy] [Repeatability]
0.1 μm **1 μm** **0.5 μm**
(Measuring range 1mm)



Bluetooth Standard

μMATE+ can be seamlessly controlled by dedicated mobile apps.

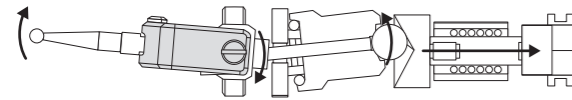
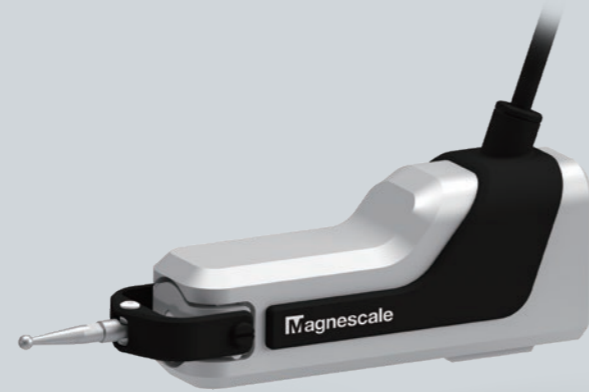


Digital Lever Gauge DM10-01 / DM10-02

High accuracy, high resolution lever gauge

A variety of measurements can be made by connecting to a digital indicator

Mounting is done with a dovetail groove, allowing direct attachment to commercially available magnetic stands.

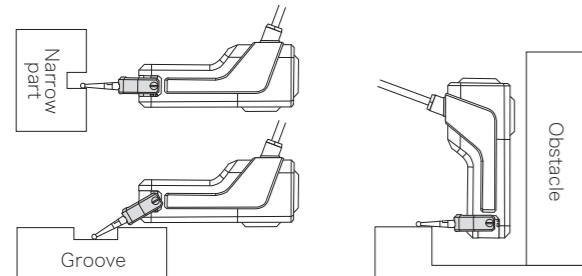


AL Link mechanism (Arc-to-Linear conversion link mechanism)

Newly developed mechanism that converts circular arc motion into linear motion. This eliminates the backlash that commonly appears with conventional lever-type gauges, and reduces the return error.

ID Sensor (Inductance to Digital conversion sensor)

A sensor that measures inductance is used for position detection. The changing frequency is detected as the amount of movement. The simple structure design and absolute readings allows the position of the stylus tip to be visualized on the display, making it easy to confirm end of travel.



Enables scanning measurement in a position suitable for the measurement



DM10-01 / DM10-02

Model	DM10-01	DM10-02
Measuring range	1 mm	2 mm
Length of stylus	11 mm	41 mm
Resolution	0.1 μm	0.2 μm
Accuracy	1 μm	2 μm
Cable length	200 mm (Extension cables available)	
Operating temperature	0~+40 °C	
Storage temperature	-10~+60 °C	
Communication method	USB2.0 (Type-A connector)	
External Dimensions	68(W) × 18(D) × 25(H) mm	
Mass	75g	

Digital Indicator LU20

Color touch panel LCD display, with convenient lithium-ion rechargeable battery

The analog display allows operation similar to a conventional lever-type gauge, with data acquisition and digital storage

Mounting flexibility is dramatically improved with a powerful magnetic stand to hold the main unit in place



LU20 mounting stand

LU20

Model		LU20
Display		2.7 inch color LCD / Touch Panel
Input/Output connector		Connection to DM10 : USB Type-A Power supply/Singal interface point : USB Type-C
Data I/F		Data transmitted by Bluetooth(BLE), Main unit controlled by custom apps MicroSD card slot, Measuring data can be stored on a commercial MicroSD card
Main function	Display	Digital numerical display, Analog meter display, Bar graph display, real-time chart mode, Simple circle measurement
	Measuring function	Current, maximum, minimum, peak-to peak, data hold, Display resolution switching (digital, analog), comparator function
	Other	Key lock, display rotation, displayed in inch (oversea model only)
Power consumption		1W or less
Power supply		Powered by built-in lithium ion battery, power supplied by USB Type-C connector (rechargeable)
Operating temperature		0 to +40 °C (No condensation)
Storage temperature		-10 to +60 °C (No condensation)
External Dimensions		64(W) × 40(D) × 91(H) mm
Accessories		mounting stand, instruction manual, lithium ion battery × 2 (replaceable)

Digital Indicator Gauge

DU10-12 / DU10-30

Integrated digital indicator gauge with the same functionality of LU20

Measuring range of 12mm and 30mm available

Resolution: 0.1 μm Accuracy: 1 μm



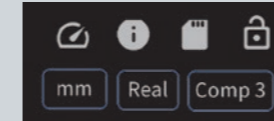
DU10-12 / DU10-30

Model	DU10-12	DU10-30
Measuring range	12 mm	30 mm
Resolution	0.1 μm	0.5 μm
Accuracy	1 μm	1.5 μm
Display	2.7 inch color LCD / Touch Panel	
Input/Output connector	Power supply/Single port: USB Type-C	
Data I/F	Data transmitted by Bluetooth(BLE), Main unit controlled by custom apps MicroSD card slot, Measuring data can be stored on commercial MicroSD card	
Main function	Display	Digital numerical display, Analog meter display, Bar graph display, real-time chart mode, Simple circle measurement
	Measuring function	Current, maximum, minimum, peak-to-peak, data hold, Display resolution switching (digital, analog), comparator function
	Other	Key lock, display rotation, displayed in inch (oversea model only)
Power consumption	1W or less	
Power supply	Powered by built-in lithium ion battery, power supplied by USB Type-C connector (rechargeable)	
Operating temperature	0~+40 °C(No condensation)	
Storage temperature	-10~+60 °C(No condensation)	
External Dimensions	64(W) × 49(D) × 156(H) mm	TBD
Accessories	instruction manual, lithium ion battery × 2 (replaceable)	

Various measurements can be made on 5 different display views

1 Function extension buttons

Display mode, screen lock settings, etc.



2 Battery level display

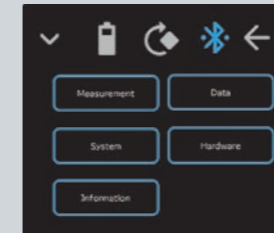


3 Display screen rotation button

Center area can be rotated 90 degrees to the right.

4 Bluetooth connection status display

5 Menu



6 ABS display

Displays the position of the lever gauge stylus tip. Red light indicates end of travel.

7 Data save button

8 Hold button
Holds the update of the of current, maximum, minimum, and P-P values.

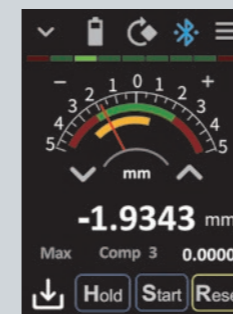
9 Measurement start button

Maximum, minimum and P-P values are set to the current value.

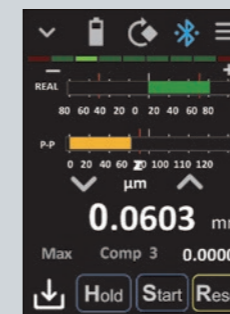
10 Reset, Preset button

Zero reset and preset values are available.

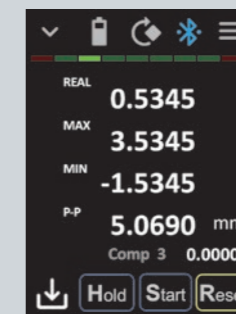
Analog display



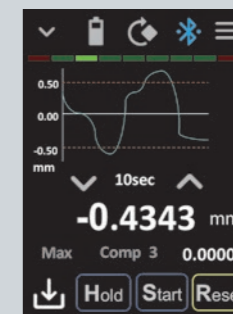
Bar graph display



Digital numerical display



Real-time chart mode



Simple circle measurement

