

■ Specifications

Model	L-600 Standard	L-600 Expert
Display resolution	0.1µm for less than 100µm, 1µm for 100µm or more (when displayed in µm) 0.01mm for less than 10mm, 0.1mm for 10mm or more (when displayed in mm)	
Display	Digital (2.7 inch full color LCD)	
Data memory	50,000 items	100,000 items
Number of application memories	50 (per probe)	
External output	USB-C	USB-C Bluetooth
Power supply	1.5V (AA alkaline battery*1) x4	
Power consumption	Max. 1W	
Battery life	70 hours*2	
Operating ambient temperature	0 to 40°C, 85% RH or less (no condensation)	
Additional functions	Substrate calibration, foil calibration, application selection, upper/lower limit setting, unit switching, measurement mode switching, language switching, statistics calculation (block/group), data memory, auto power off, backlight, date and time setting, display switching, etc.	
Dimensions and weight	70 (W)x155 (D)x35 (H) mm, 0.2 kg	
Accessories	Iron substrate (for Fe probe), Aluminium substrate (for NFe probe), Calibration foils x 4 (10, 100, 500, 1000µm), Battery 1.5V (AA alkaline) x 4, Probe adapter, Carrying pouch, Strap, USB cable (Type-C), Connector cover, List of compatible probes & optional calibration foils, Operating Manual	
Options	Various Fe/NFe probes (required option), Calibration foils (thickness other than accessories), Measuring Stand LW-990 for coating thickness tester, Soft carrying case, Bluetooth communication dongle VZC76, Calibration (calibration certificate, calibration record, traceability flow chart)	
PC software (LDL Export)	✓	✓
Mobile app (LDL Mobile)	×	✓ (Android)

<Conformity standards>

JIS K5600-1-7/ JIS H0401/  
JIS H8401/ JIS H8501/  
JIS H8641/ JIS H8680-2/  
ISO 1461/ ISO 2064/ ISO 2360/  
ISO 2178/ ISO 2808/ ISO 19840/  
ASTM B 244/ ASTM B 499/  
ASTM D 7091/ ASTM E 376

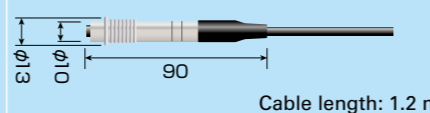
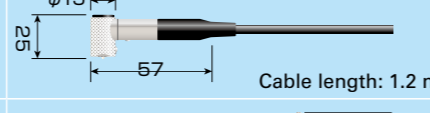
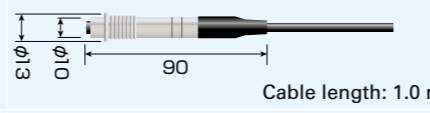
Coating Thickness Tester  
**L-600**

Scan here for the operation video



\*1 AA lithium batteries and AA nickel-hydrogen rechargeable batteries can also be used.  
\*2 AA alkaline batteries, minimum backlight brightness, Mea. Mode: single for a measurement/sec

■ Probe specifications At least one probe is required to measure.

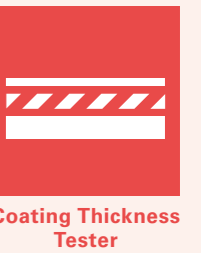
Measurement method	Model	Features and main uses	Measurement range	Measuring accuracy	Mass	Shape/dimensions
Electromagnetic method	EP-100	Straight-type, General-purpose	0 - 2500µm	±1.0µm (up to 50µm) ±2% (50 µm and above)	110g	
	EP-200	Straight-type, Shape-adaptive	0 - 1200µm			
	EP-110	Right angle probe for narrow spaces	0 - 2500 µm	* Depends on our specified conditions	120g	
	EP-120	Right angle probe for inner surface of pipe and hard-to-reach areas				
Eddy Current method	HP-100	Straight-type, General-purpose	0 - 1200µm	±1.0µm (up to 50µm) ±2% (50 µm and above)	90g	
	HP-110	Right angle probe for narrow spaces				



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Management system enhancement department of the Japanese Standards Association (JSA) registers the Quality Management System of the above organization, which conforms to JIS Q 9001, ISO 9001. The scope of the registration: Design, development, production management, calibration and repair of moisture testers, NIR composition analyzers, grain inspectors and coating thickness testers.

Contact



Coating Thickness Tester  
**L-600**  
Standard/Expert

The Next Generation of  
Coating Thickness Measurement





# L-600 Coating Thickness Tester Standard/Expert



The L-600 Coating Thickness Tester is a handheld device that allows for probe replacement depending on the measurement target and application.

With its high visibility and ergonomic design, it is suitable for coating thickness measurements in a variety of settings, both indoors and outdoors.

The user-friendly interface, equipped with a guide function, along with extensive customization and advanced statistical features, makes the L-600 ideal for both beginners and experienced users, offering a comfortable and efficient measurement experience.

## Clear display / Body that fits in your hand

**Equipped with a 2.7-Inch Full-Color LCD (Blanview® Liquid Crystal Display\*1)**

The new model boasts significantly enhanced visibility compared to its predecessor. It is also highly visible even when used in direct sunlight. Despite its color LCD display, it has low power consumption, allowing for extended continuous use (up to 70 hours\*2).

It can be used for long periods in various locations, both outdoors and indoors.

\*1: Blanview® is a registered trademark of Ortus Technology Co., Ltd.  
 \*2: AA alkaline batteries, minimum backlight brightness, Mea. Mode: single for a measurement/sec

**Comfortable design focused on ease of handling**

The design is slimmer than previous models, featuring a tapered shape that fits comfortably in the hand.


**Intuitive key layout**

The device features three function keys that are linked to the display, along with power, delete, up/down, and enter keys. This simple and basic key arrangement allows for intuitive operation without confusion for any user.




## Model lineup

In addition to the versatile Standard model, we offer the Expert model, equipped with a larger data memory and Bluetooth technology, designed to meet modern data processing needs.



**L-600 Standard**

- Data memory: 50,000
- Data output via USB-C



**L-600 Expert**

- Data memory: 100,000
- Data output via USB-C/Bluetooth
- Compatible with the mobile app "LDL Mobile"

### Probe

\* Required option  
 Measurement of non-magnetic coatings on magnetic metals

### Electromagnetic type probe



Measurement of insulation coating on non-magnetic metals

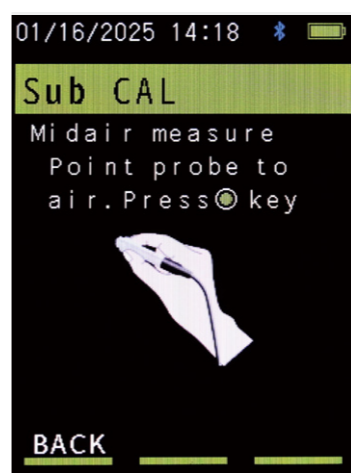
### Eddy current probe



## More intuitive and accessible

**User-friendly and easy-to-understand user interface**

The screen features a guided user interface. The illustrations and interactive screen make it easy to understand foil calibration operations, which used to be difficult. Also, an on-screen QR code provides instant access to the video for foil calibration.



**Language switching function**

Supports four languages: Japanese, English, Chinese, and Korean, with the option to switch languages at any time.

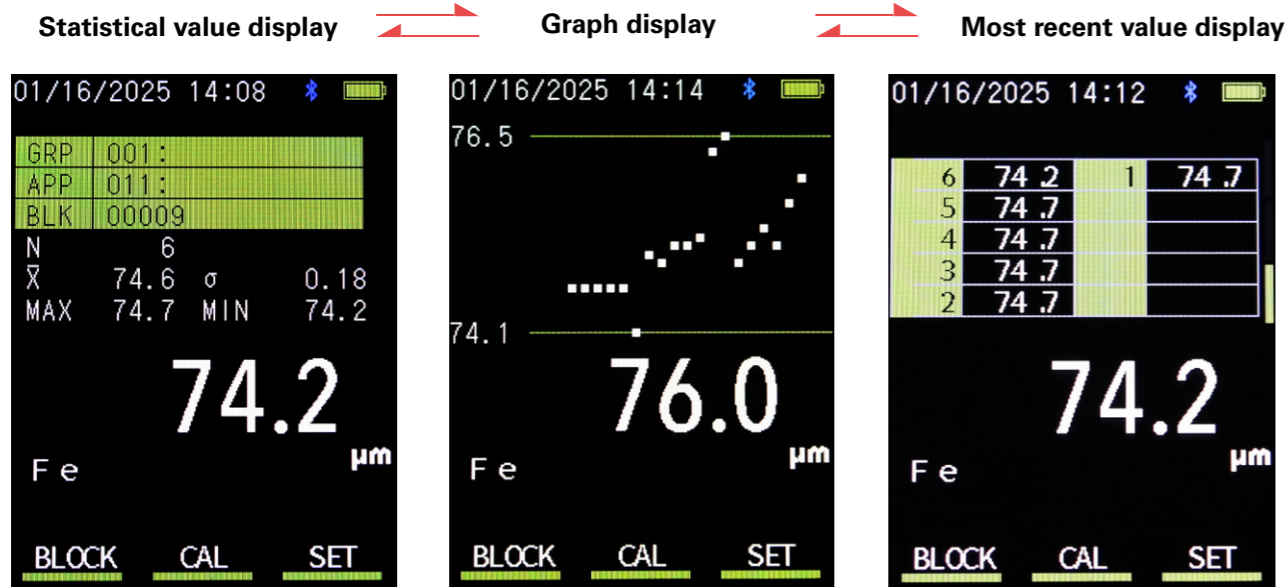
**Probe check function**

The "PROBE CHECK" function allows you to simply check whether the initial symptoms of cable disconnection have occurred on the probe.

## Evolved statistics and data output functions

### ● Statistical information switching

The measurement screen can display three types of statistical information, which can be easily switched and viewed at any time using the up and down keys.



### ● Advanced statistical functions (group/block function)

Measurement results can be saved in blocks separately within a specified group. By organizing data into groups or blocks based on the applications, production lot, or measurement location, it becomes easy to obtain statistical values for any desired data set. Up to 50 groups and a total of 1,000 blocks can be registered.

### ● Data output function (Date-specific output)

Measurement results can be output to external devices via USB or Bluetooth (Expert model only). In addition to group/block outputs, the system also allows for date-specific outputs (such as for the current or previous day), enabling users to output only the measurement data taken on that day with a single action.

## Evolved Measurement Functions

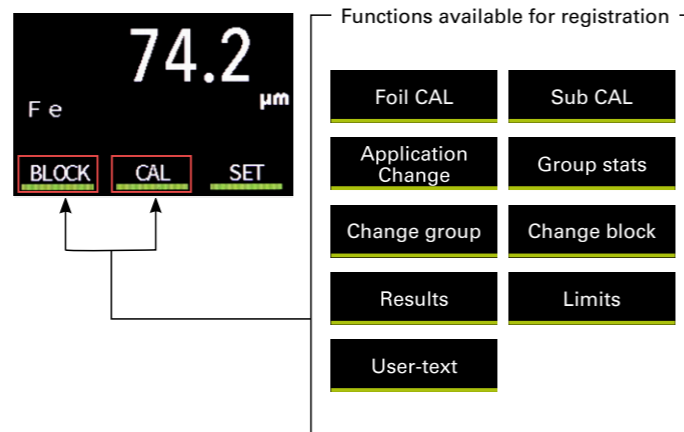
### ● Four measurement modes

In addition to the conventional measurement modes, we have introduced new scan measurement and scan average measurement modes that automatically continue to acquire measurement values. This enhances measurement efficiency like never before.

Single measurement		Normal measurement mode
Free measurement	∞	Measurement timing is determined by key operation; convenient for unstable objects to be measured.
Scan measurement	↻	Continuous measurements at regular intervals; useful for quick repeated measurements.
Scan Average measurement	↻	Displays the average of continuous measurements; ideal for applications with high variability.

### ● Key customization

The function keys on the measurement screen can be freely customized. By registering frequently used keys, the measurement process can be streamlined for greater efficiency.

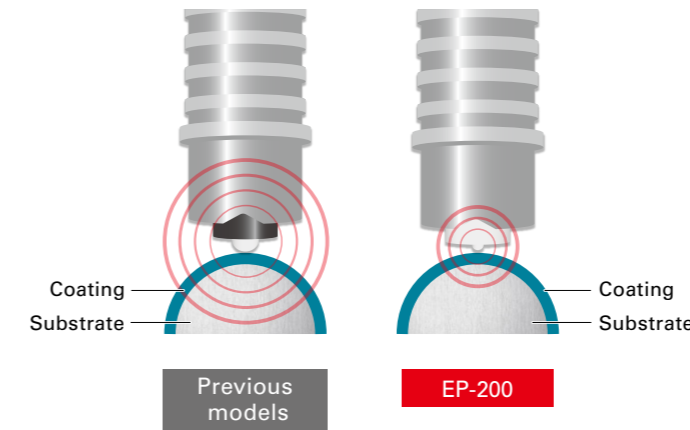


## The evolved probe

### ● Shape-adaptive probe 'EP-200'

Introducing the new 'EP-200' probe, equipped with a newly developed electromagnetic sensor. The EP-200 improved sensor sensitivity, reducing the impact of the shape of the object to be measured. It is ideal for measuring edges, thin substrates, and objects with multiple curves or complex shapes among others.

<Sensor image>



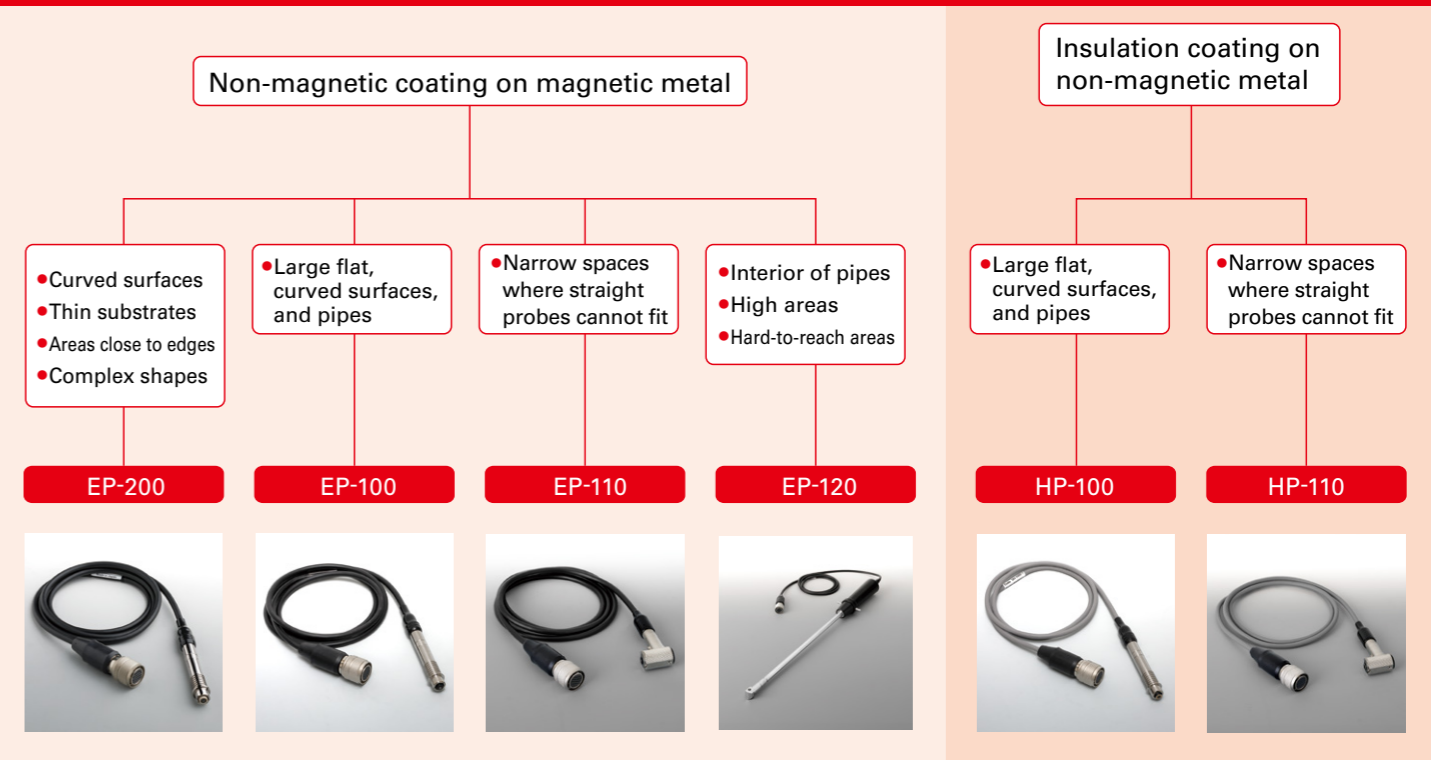
### ● Application memory function

The probe can store application information (such as calibration data) for up to 50 types. Once the calibration results are saved according to the material and shape of the object to be measured, the measurement can be performed immediately by recalling the saved application the next time.

### ● Various probes for different applications

While previous models could only support one probe per unit, the L-600 allows multiple probes to be connected. This makes it easy to switch between different probes depending on the target and application, and to replace them with spare probes.

## Probe selection chart





# L-600 Coating Thickness Tester Standard/Expert

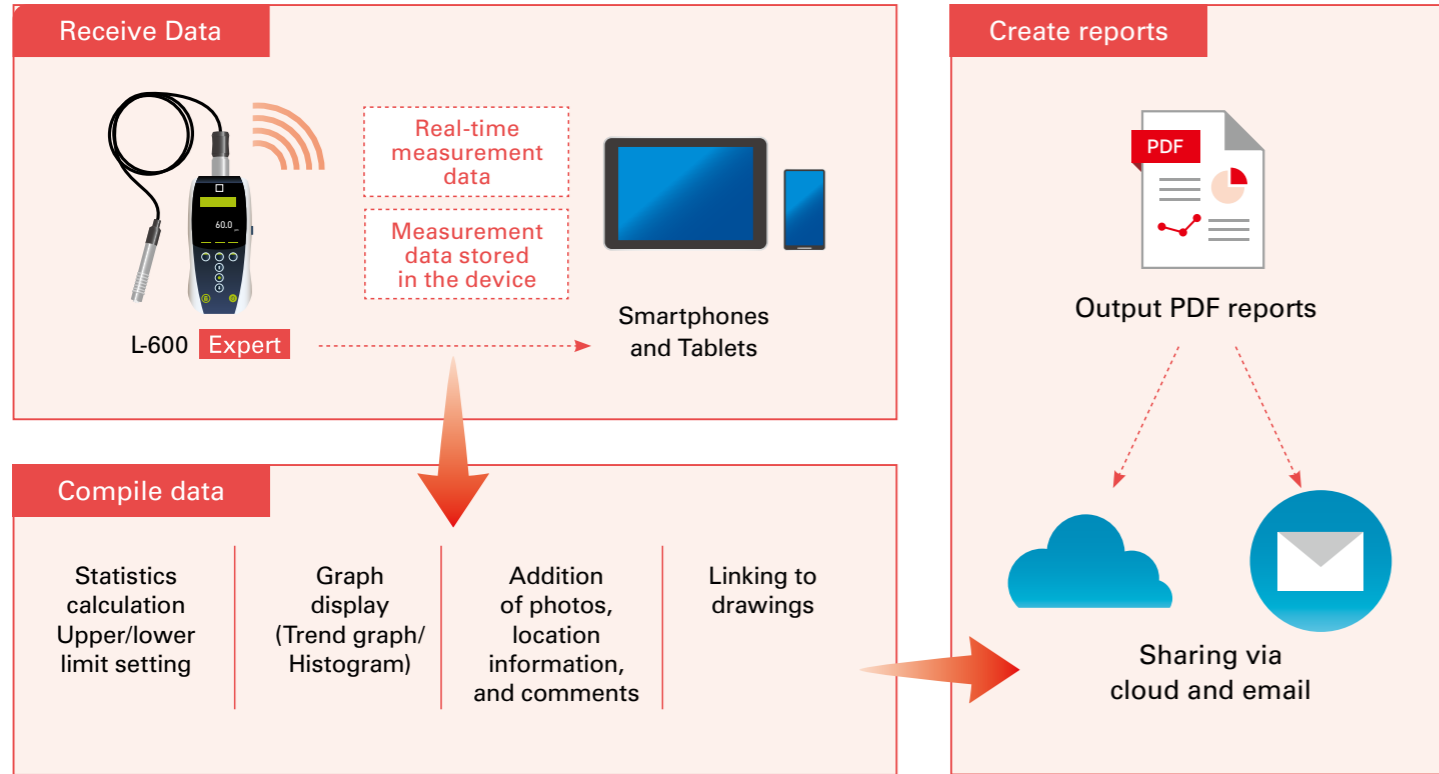
## Expanding data management

### ● Mobile App for Smartphones and Tablets: 'LDL Mobile' (scheduled for release in spring 2025)

This mobile app for Android smartphones and tablets enhances the data processing capabilities of the coating thickness tester. With Bluetooth communication to the L-600 Expert, it enables sharing measurement data and creating measurement reports. This app is available for free download from the Google Play Store.

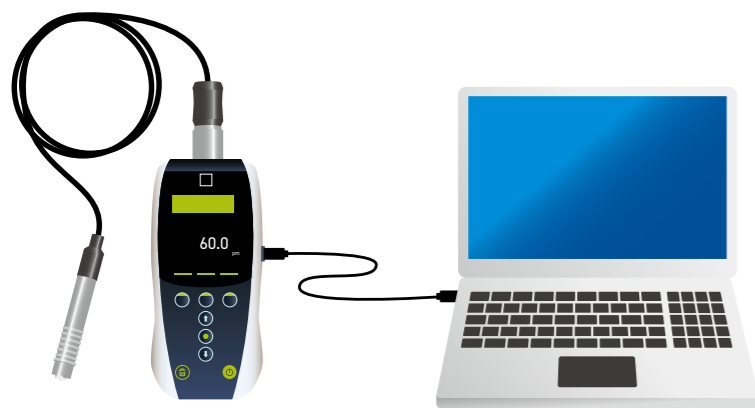


Google Play is a trademark of Google LLC.



### ● Data management software for PC: 'LDL Export'

This simple software receives data from the coating thickness tester and outputs it as a CSV file. Wired communication via USB-C is available, or Bluetooth communication is possible with the L-600 Expert. (Note: The receiver dongle VZC76 is required. Laptops that have built-in Bluetooth function cannot be connected.) This software can be downloaded for free from the website.



L-600 Standard

L-600 Expert

PC

LDL Export		
PORT No.	COM7	
DATA OUTPUT MODE		
<input checked="" type="radio"/> MODE1	<input type="radio"/> MODE2	<input type="radio"/> MODE3
Save		
N=	000003	76.5 um
N=	000004	76.5 um
N=	000005	76.3 um
N=	000006	76.1 um
N=	000007	76.4 um
N=	000008	76.6 um
N=	000009	75.8 um
N=	000010	76.3 um
*GROUP NO 1		
*BLOCK NO 7		
N=	000001	42.9 um
N=	000002	43.1 um
N=	000003	43.1 um
N=	000004	42.5 um
N=	000005	42.7 um
N=	000006	43.2 um
N=	000007	43.1 um
N=	000008	43.0 um
N=	000009	43.7 um
N=	000010	43.8 um

Sample output

## Full range of support parts

### ■ Accessories

Supports are included as standard to enable measurements in various situations.

- Carrying pouch
- Iron substrate (for Fe probe)
- Aluminium substrate (for NFe probe)
- Calibration foil x4 (10, 100, 500, 1000µm)
- Probe adapter
- Strap
- USB cable (Type-C)
- Connector cover

### ● Probe adapter

Suitable for measuring curved surfaces such as pipes. It can be connected to a straight probe.



### ■ Options

#### ● Soft carrying case

Used for safely transporting the device during tasks at height or protecting it in harsh environments with dust and dirt. The soft case can also be stored in the carrying pouch while attached.



#### ● Measuring stand LW-990

Stabilizes measurements with a consistent force and angle. Used to accurately measure small objects.



#### ● Optional calibration foils (with thicknesses other than those supplied)

Using calibration foils close to the measured coating thickness will improve accuracy. In addition to the included accessories, we offer various thicknesses of calibration foils.



<Calibration foils thickness list>

10/ 25/ 37/ 50/ 75/ 100/ 125/ 250/ 300/ 350µm (made of polyester film)

500/ 800/ 1000/ 1500µm (made of polycarbonate)

#### ● Calibration certificate at shipment

Calibration certificate, calibration result sheet, traceability system diagram

#### ● Bluetooth communication dongle VZC76

A receiver dongle used for Bluetooth communication between the PC and the L-600 Expert.

