




ADA INSTRUMENTS 1500 PaintMeter Coating Rhickness Tester Instruction Manual

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ADA
INSTRUMENTS
OPERATING MANUAL
PaintMeter 1500
Coating thickness gauge



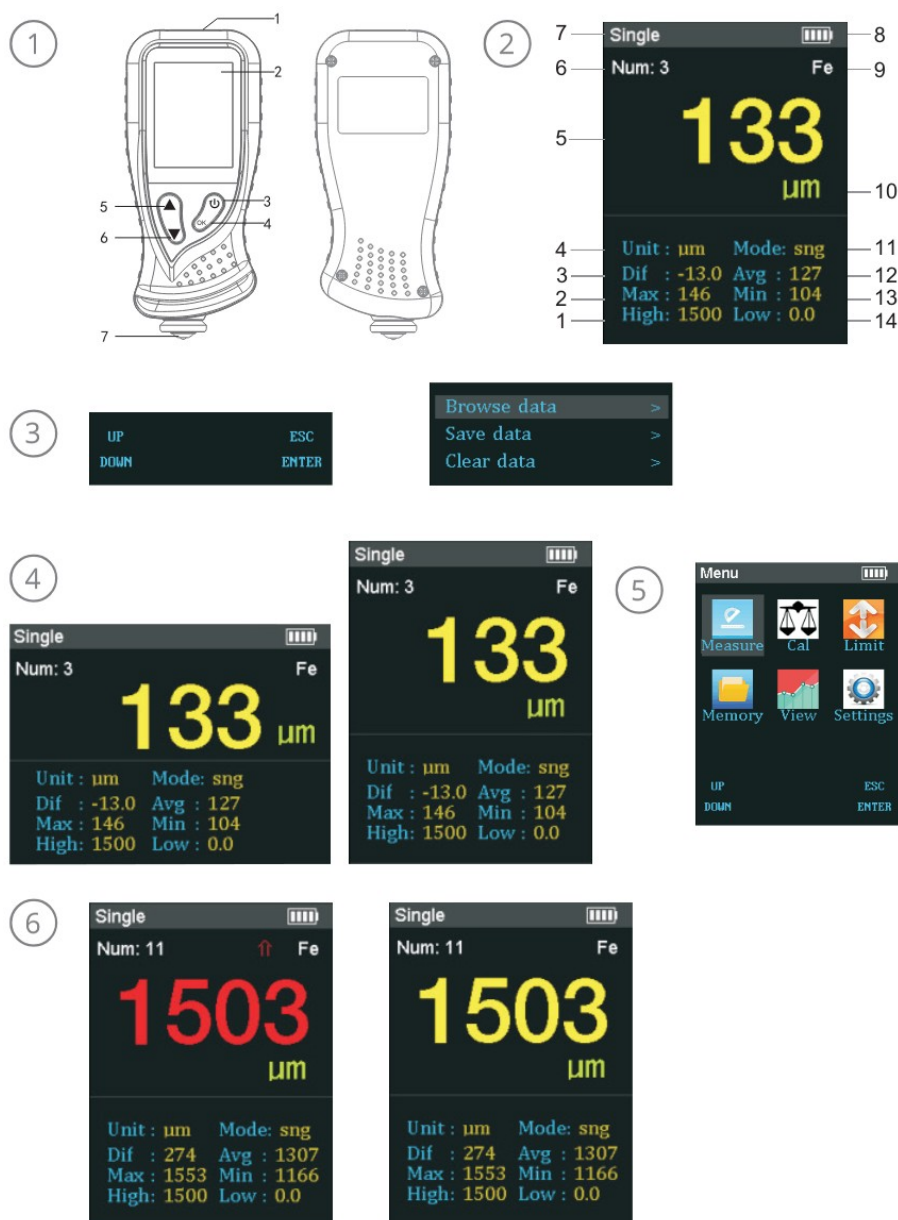
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1500 PaintMeter Coating Rhickness Tester

Manufacturer: ADA Instruments

Address: www.adainstruments.com





APPLICATION

This product is a color-screen portable coating thickness gauge with color HD display. It is used for thickness measurement of non-magnetic coatings on magnetic and non-magnetic metal substrates. At the same time it can automatically identify magnetic metal substrate and non-magnetic metal substrate. It is widely used in manufacturing, metal processing industry, chemical industry, commodity inspection and other testing areas.

FUNCTIONAL DESCRIPTION

- Menu operation and color HD display.
- Thickness measurement of non-magnetic coatings on magnetic and non-magnetic metal substrates.
- Two measurement modes: single measurement, continuous measurement.
- Basic calibration and Zero-point calibration.
- Metric/imperial unit and storage function.
- Screen rotation, multi-interface displays, screen brightness selection.
- Automatic shutdown.

① FEATURES

1. USB charging interface
2. LCD display
3. Back button and On/Off button
4. Confirm button
5. Up button
6. Down button
7. Test probe

OPERATION

After startup, lightly press test probe on the substrate to be tested under measurement interface. Measured value is appeared on the display. It shows the coating thickness of substrate.

② DISPLAY

- a. Mode: single (sng) / continuous (ctn)
- b. Battery power indicator
- c. Measurement counting
- d. Substrate: Fe/nFe
- e. Display area of measured value
- f. Unit : um/mil
- g. Measurement difference
- h. Average value
- i. Maximum value
- j. Minimum value
- k. High limit
- l. Low limit

③ MENUE

Press (3) button to enter menu.

Press "OK" button for quick entry of measured data menu.

④ SCREEN ROTATION

Hold and press button (5) to rotate screen.

⑤ MENU FUNCTIONS

Enter measurement sub-items for operation with buttons up/down.

CALIBRATION

Basic calibration:

Prepare the calibration plates and calibration base, enter calibration menu and select CALIBRATION.

According to the instructions, place the corresponding calibration plate for calibration.

After calibration is completed, "calibration complete" will show up at the bottom of the screen and the tool will return to the previous interface.

After the calibration is complete, you can go back to measurement interface and perform measurement.

Magnetic and non-magnetic metal base calibration do not affect each other.

Note: When performing basic calibration, press the base of the tool when the arrow is down, and remove it when the arrow is up.

Zero Calibration:

Enter calibration menu and select zero calibration.

Place and hold the probe on the substrate until the full green line on the display.

The tool will automatically calibrate to zero point.

The instrument displays the previous interface after calibration is done.

After calibration is complete, you can go back to measurement mode and perform measurements.

⑥ LIMIT VALUE

Switch On the limit value: when the measured value is above high limit or below low limit, the measured value will turn red and the corresponding icon will appear.

If limit value switch is off, value of normal measurement will be displayed.

⑦ STORAGE

Measured data: users can view, save and delete measured data.

View: view saved data.

Delete: under delete interface, press button OK to delete one line. Press and hold button OK to select all removals.

⑧⑨⑩ VIEW

Press button OK to turn um&mil switch on. Measurement results will be displayed simultaneously in two units.

Turn on the necessary switch to check the measurement statistics, previous values and measurement schedule.

Press UP/DOWN button to display data on the display during the measurement mode.

11 SETTINGS

Enter setting menu to perform corresponding operations.

SPECIFICATIONS

| | |
|--|--|
| Measurement range | 0 ~ 1500um/59mil |
| Resolution..... | 0.1μm (<100 μm), 1μm (≥100μm) / 0.1mil |
| Measurement error..... | ≤150μm ±5μm >150μm ±(3%H+1μm) |
| Minimum diameter of magnetic metal substrate | 12mm |
| Minimum thickness of magnetic metal substrate..... | 0.5mm |
| Minimum radius of curvature for magnetic convex substrate | 2mm |
| Minimum radius of curvature for magnetic concave substrate | 11mm |
| Minimum diameter of non-magnetic metal substrate..... | 50mm |
| Minimum thickness of non-magnetic metal substrate..... | 0.5mm |
| Working voltage | DC 3.7V (Lithium battery capacity 1000mAh) |
| Weight..... | 102. 4g(including battery) |

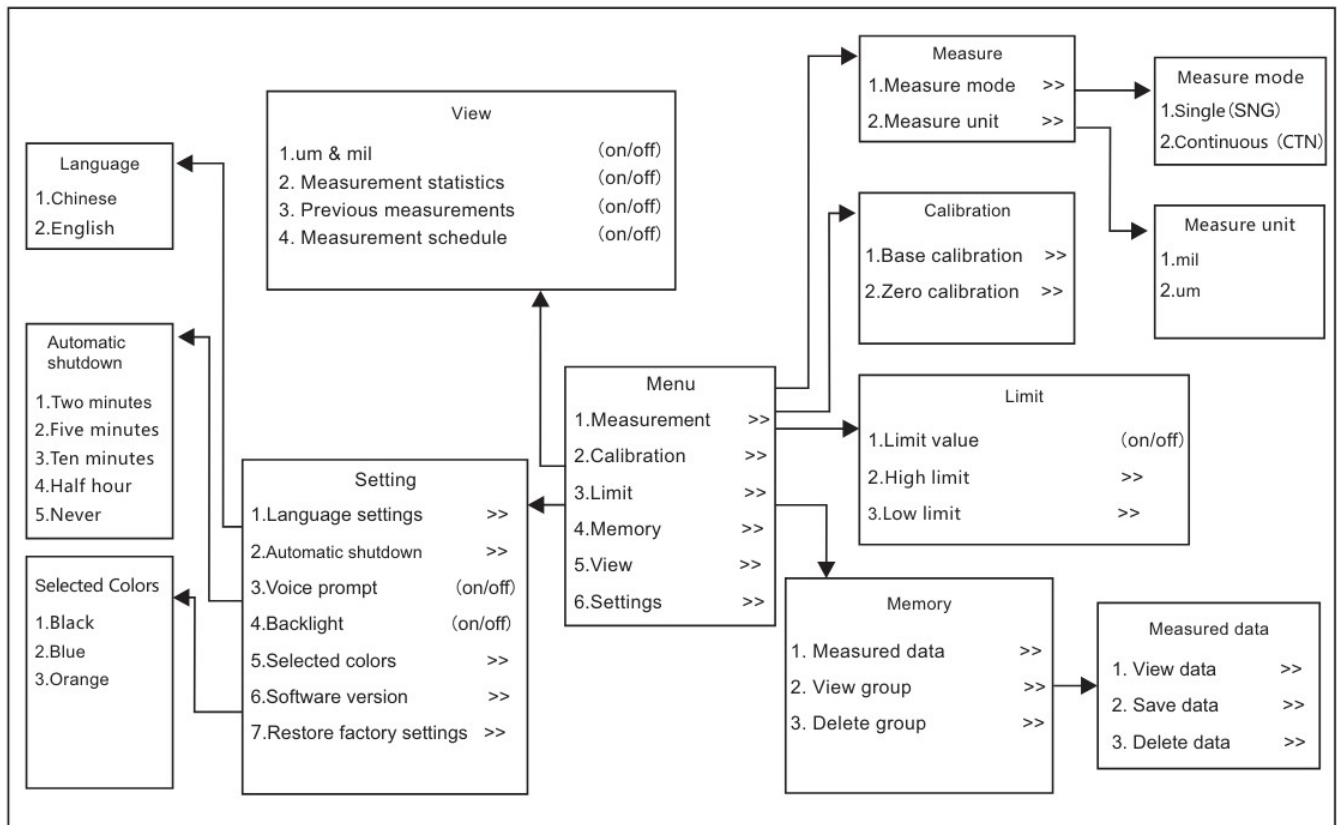
ATTENTION

Keep the probe away from the measured substrate when starting up.

“-OL-”indicates that the value exceeds the measurement range.

Do not press the sensor with your finger or other object. It can damage the sensor parts and the tool!

MENU CHART



WARRANTY

This product is warranted by the manufacturer to the original purchaser to be free from defects in material and workmanship under normal use for a period of two (2) years from the date of purchase.

During the warranty period, and upon proof of purchase, the product will be repaired or replaced (with the same or similar model at manufactures option), without charge for either parts of labour.

In case of a defect please contact the dealer where you originally purchased this product. The warranty will not apply to this product if it has been misused, abused or altered. Withiut limiting the foregoing, leakage of the battery, bending or dropping the unit are presumed to be defects resulting from misuse or abuse.

EXPETIONS FROM RESPONSIBILITY

The user of this product is expected to follow the instructions given in operating manual.

Although all instruments left our warehouse in perfect condition and adjustment the user is expected to carry out periodic checks of the product's accuracy and general performance.

The manufacturer, or its representatives, assumes no responsibility of results of a faulty or intentional usage or misuse including any direct, indirect, consequential damage, and loss of profits.

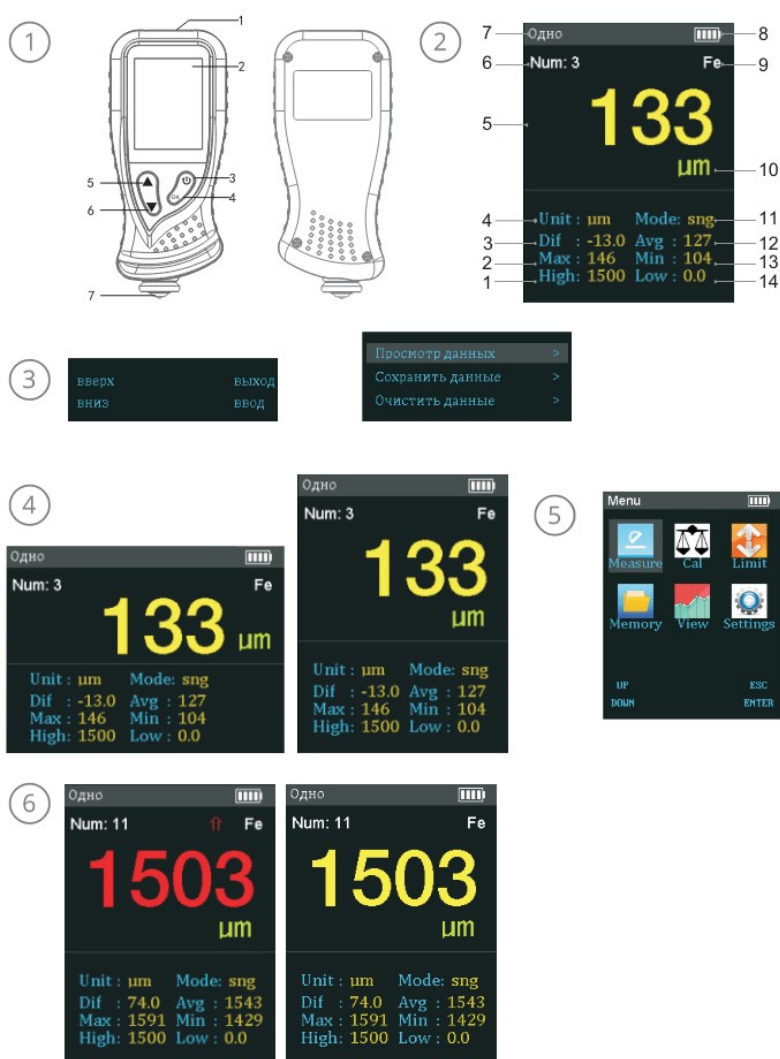
The manufacturer, or its representatives, assumes no responsibility for consequential damage, and loss of profits by any disaster (earthquake, storm, flood ...), fire, accident, or an act of a third party and/or a usage in other than usual conditions.

The manufacturer, or its representatives, assumes no responsibility for any damage, and loss of profits due to a change of data, loss of data and interruption of business etc., caused by using the product or an unusable product.

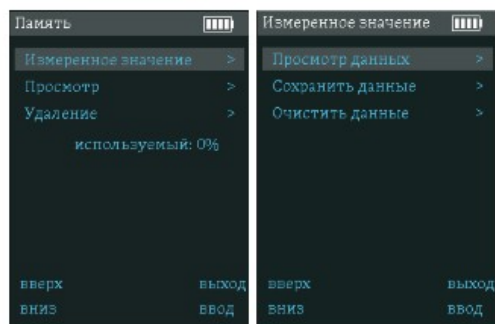
The manufacturer, or its representatives, assumes no responsibility for any damage, and loss of profits caused by usage other than explained in the operating manual. The manufacturer, or its representatives, assumes no responsibility for damage caused by wrong movement or action due to connecting with other products.

WARRANTY DOESN'T EXTEND TO FOLLOWING GASES:

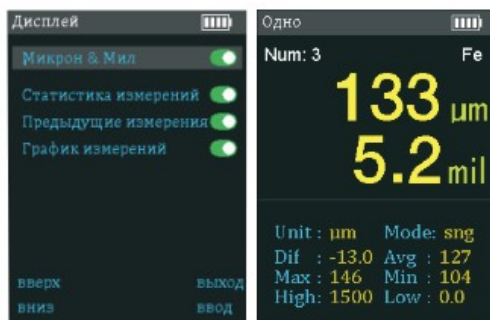
1. If the standard or serial product number will be changed, erased, removed or will be unreadable.
2. Periodic maintenance, repair or changing parts as a result of their normal runout.
3. All adaptations and modifications with the purpose of improvement and expansion of normal sphere of product application, mentioned in the service instruction, without tentative written agreement of the expert provider.
4. Service by anyone other than an authorized service center.
5. Damage to products or parts caused by misuse, including, without limitation, misapplication or negligence of the terms of service instruction.
6. Power supply units, chargers, accessories, wearing parts.
7. Products, damaged from mishandling, faulty adjustment, maintenance with low-quality and non-standard materials, presence of any liquids and foreign objects inside the product.
8. Acts of God and/or actions of third persons.
9. In case of unwarranted repair till the end of warranty period because of damages during the operation of the product, it's transportation and storing, warranty doesn't resume.



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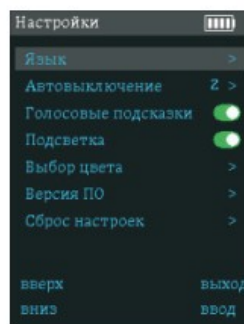
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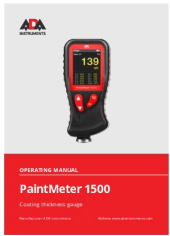
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Documents / Resources



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1500 PaintMeter Coating Rhickness Tester, PaintMeter Coating Rhickness Tester, Coating Rhic
kness Tester, Rhickness Tester, Tester

References

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