

UDT-08

Portable ultrasonic thickness gauge



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- Powerful
- Light and portable
- Ergonomic design
- High reliability
- High measurement accuracy
- Usability

Ultrasonic thickness gauge UDT-08

General information

The updated easy-to-use ultrasonic thickness gauge. The device has a *B*-scan for building a profile of the bottom surface of the product. The device also has an A-scan in the setting mode, which allows the user to observe radio-frequency signals in real time.

The new version has expanded the range of available transducers and increased the gain range up to 92 dB. High accuracy and reliability, color frost-resistant TFT display make this ultrasonic thickness gauge one of the best in its class by price / quality ratio.



Specifications

Measurement range

0,8 - 300 mm

Discreteness

0.001 - 0.01 - 0.1

Measurement accuracy

0,01 mm

Gain

92 dB, in increments 1 dB

AGC (Automatic Gain Control)

included

TCG (Time Corrected Gain)

no

Frequency range

1 - 10 MHz (-6 dB)

Display

TFT with adjustable brightness and color set
43 x 58 mm; 240 x 320 pixels

Memory

no

Interface

no

Power supply

built-in Li-Po battery

Operation temperature range

from -25 to +55 °C

Dimensions (H x W x L)

148 mm x 64 mm x 25 mm

Weight

180 g

Ultrasonic thickness gauge UDT-08

Delivery set

UDT-08 main unit with built-in Li-Pol battery

PC Software

Transport bag

Protective bag with blind and belts

Power supply 5 V / 220 V

1 x 2Lemo00 — 2Lemo00 cable

1 x transducer

UDT-08 menu structure



1. Select a parameter;
2. Confirm the action;
3. Adjust the parameter value;
4. On/Off;
5. Settings;
6. Change the operation mode.

Connectors

1. USB-C
2. Pulser
3. Receiver

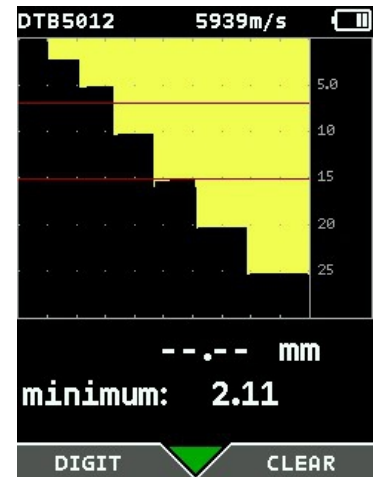


Ease of operation and reliability

This thickness gauge combines the latest achievements in analog and digital electronics, usability, ergonomic design and high reliability.

Specifics

- high-contrast and easy-to-read at any angle frost-resistant TFT display;
- powerful Li-Pol battery with up to 15 hours battery life;
- protective bag with blind and belts for field operation;
- built-in V-path correction;
- AGC.



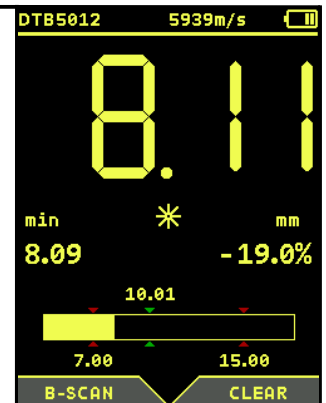
B-scan



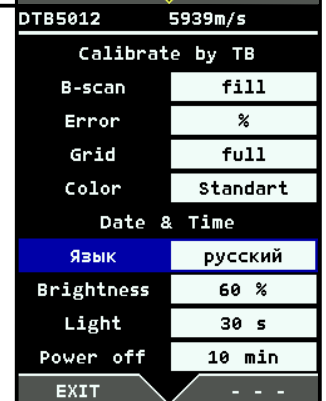
Transducer choosing

UDT-08 specifics

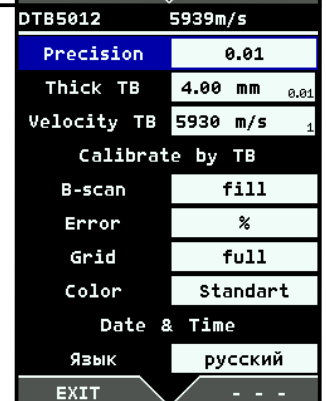
For the convenience of the user, the device has three color sets, which can be adjusted independently.



UDT-08 has support for two languages by default: Russian and English. Support for other menu languages is optional.



An additional option is added to the UDT-08 to calibrate according not only to the built-in sample, but to any sample specified by the user.



The UDT-08 has two signal display modes, each of which has its own characteristics: DIGIT and B-SCAN.



General technical specifications

Measurement range

0,8 - 300 mm

Discreteness

0.001 - 0.01 - 0.1

Measurement accuracy

0,01 mm

UT speed range

1000 - 9999 m/s

Gain

92 dB, in increments 1 dB

AGC (Automatic Gain Control)

included

TCG (Time Corrected Gain)

no

Frequency range

1 - 10 MHz (-6 dB)

Visualization

A-scan, B-scan, digital values

Alarm System

no

Max. number of measurements per sec.

30

Transducers

DF1220 (1,25 MHz, 20 mm)

DF2512 (2,5 MHz, 12 mm);

DTB5012 (5 MHz, 12 mm);

DT1006 (10 MHz, 6 mm)

DT1044 (10 MHz, 4x4 mm)

Probe calibration

by built-in sample or by any sample specified by the operator

Sound velocity calibration

according to the thickness specified by the operator

Non-original transducers usage

no

Display

TFT with adjustable brightness and color set

43 x 58 mm; 240 x 320 pixels

Color sets

standard color, luminescent, monochrome

(for working in bright sunlight)

Brightness

5 - 100%, in increments 1%

Display lights auto-off

included

Auto-off

3 min., 5 min., 10 min.

Date/time setting

included

Memory

no

Interface

no

Language

Russian, English

Transducer connectors

2 x Lemo 00

Power supply

built-in Li-Po battery

Battery life

no less than 15 hours

External power supply

220 V AC / 5 V DC

Operation temperature range

from -25 to +55 °C

Dimensions (H x W x L)

148 mm x 64 mm x 25 mm

Weight

180 g