

Thickness Gauge

**SCHMIDT**  
control instruments



Edition DD 02.0.E

DD Series

Model DD-50  
DD-200  
DD-300  
DD-500

# Instruction Manual

Valid as of: 01.03.2012 • Please keep the manual for future reference!



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## 1. Preparation

- 1.1 Before using the thickness gauge, the cleanliness of the measuring surface and measuring feeler has to be checked. It has to be cleaned with a lint-free cloth if necessary.
- 1.2 Put the provided additional weight on the locating bolt of the dial gauge.  
For this reason the thickness gauge is prepared for the according standard as shown subsequent.

| Model    | Depth of jaws | Standard                           | Application                           | Feeler Ø | Feeler cm <sup>2</sup> | Measuring pressure |
|----------|---------------|------------------------------------|---------------------------------------|----------|------------------------|--------------------|
| DD-50-T  | 50 mm         | according to<br>DIN EN ISO 5084*   | Textiles and<br>non-woven<br>textiles | 50.42    | 20                     | 1 kPa              |
| DD-200-T | 200 mm        |                                    |                                       |          |                        |                    |
| DD-300-T | 300 mm        |                                    |                                       |          |                        |                    |
| DD-500-T | 500 mm        |                                    |                                       |          |                        |                    |
| DD-50-V  | 50 mm         | according to<br>DIN EN ISO 9073-2* | Fleece                                | 56.42    | 25                     | 0.5 kPa            |
| DD-200-V | 200 mm        |                                    |                                       |          |                        |                    |
| DD-300-V | 300 mm        |                                    |                                       |          |                        |                    |
| DD-500-V | 500 mm        |                                    |                                       |          |                        |                    |
| DD-50-L  | 50 mm         | according to<br>DIN EN ISO 2589*   | Leather                               | 10       | 0.785                  | 49.1 kPa           |
| DD-200-L | 200 mm        |                                    |                                       |          |                        |                    |
| DD-300-L | 300 mm        |                                    |                                       |          |                        |                    |
| DD-500-L | 500 mm        |                                    |                                       |          |                        |                    |

\*The thickness gauge does not meet the DIN, EN or ISO standards. The feeler shape and the pressure are corresponding to DIN-EN-ISO standards.

## 2. Measuring with the thickness gauge

- 2.1 Switch-on the dial gauge by pressing the ON/OFF button. Then press the mm/inch button to select the measuring unit.
- 2.2 Setting the Zero Point  
Press the Zero button, when the measuring feeler contacts with the measuring surface.
- 2.3 - Press the lifting lever down to raise the feeler.
- Place the material to be measured between the measuring surface and the measuring feeler. The material must be placed parallel to the measuring surface and the feeler
  - Unhand the lifting lever kindly to close the thickness gauge
  - The reading is now shown in the display
  - After completing the measurement, switch off the dial gauge by pressing the ON/OFF button

## 3. Maintenance

Keep the thickness gauge always dry. Water and other liquids should not contact the thickness gauge, in order to avoid damaging the electronic.

Don't clean the thickness gauge with acetone.

Change the battery as described in the operating manual for the dial gauge

#### 4. Specifications

|                    |                              |
|--------------------|------------------------------|
| Measuring range:   | 0 - 10 mm (Option 0 - 25 mm) |
| Resolution:        | 0.01 mm / 0.0005 inch        |
| Depth of jaw:      | 50/200/300/500 mm            |
| Display:           | LCD 4 digit, 8 mm high       |
| Battery:           | 1 piece SR 44                |
| Temperature range: | 0 - 40 °C                    |

### EU - Declaration of Conformity

according to the EC Machinery Directive 2006/42/EC of 17 May 2006, Annex II A

We hereby declare that the design and construction of the following machine, as well as the design we have placed on the market, comply with the basic safety and health requirements of the EU Directive 2006/42/EU. This declaration loses its validity if the machine is modified.

#### Description of the machine:

- Function: Thickness gauge
- Type/Model: DD series

#### It is declared in accordance with other directives/regulations also applicable to the product:

- EMC Directive (2014/30/EU) of 26. february 2014

#### Harmonised standards applied in particular:

- DIN EN ISO 12100-1, edition.: 2004-04, Safety of machinery - Basic concepts, General design principles, Part 1: Basic terminology, methodology
- DIN EN ISO 12100-2, edition.: 2004-04, Safety of machinery - Basic concepts, General design principles, Part 2: Basic terminology, methodology
- DIN EN ISO 60204-1/A1; VDE 0113-1A1, edition.: 2009-10, Safety of machinery - Electrical equipment of machines - Part 1: General requirements
- DIN EN ISO 13850, edition.: 2008-09, Safety of machinery - Emergency stop, Design principles
- DIN EN ISO 13849, edition.: 2008-12, Safety of machinery - Safety-related parts of control systems, Part 1: General design principles

#### National technical specifications applied:

Accident prevetion regulations UVV, BGV A3 Electrical installatins and equipment

  
Dipl.-Ing. Frank Wolf  
Managing Director



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