

## Thickness Gauge with digital display for different textile applications

### Series D-2000

These Thickness Gauges can be used to determine the material thickness of all non-woven fabrics. With these instruments the most popular checking methods can be applied for textiles, fleece, felts, geo-materials, paper, floor coverings, leather, foils, rubber, etc., according to the international DIN, EN and ISO standards.

#### Special Features

- Feeler movement manual by plunger
- RS 232 data output
- Rigid housing frame
- Separate measuring block, incased against outside external impacts, for highest accuracy and repeatability
- Additional weights for different surface pressure values

#### Standard Features

- Easy to use
- Standard measuring range 0 - 10 mm
- LCD display - switchable measuring units mm or inch
- Resolution 0.01 mm, option 0.001 mm
- Inspection sheet of manufacturer available free of charge, DKD calibration certificate optional



Model D-2000-T for textiles

#### Available Models

Model	Standard	Application	Feeler cm <sup>2</sup>	Pressure
D-2000-T	DIN EN ISO 5084	Textiles	20	0.1 kPa and 1 kPa
D-2000-V	DIN EN ISO 9073-2	Fleece	25	0.1 kPa and 0.5 kPa
D-2000-G1	DIN EN ISO 964-1	Geotextiles	25	2 kPa and 20 kPa
D-2000-G2	DIN EN ISO 964-1	Geotextiles	25	2 kPa, 20 kPa and 200 kPa
D-2000-NW	DIN EN ISO 53855	Fabrics	25	0.5 kPa and 1 kPa
			10	5 kPa
D-2000-P	DIN EN ISO 53105	Paper	2	100 kPa
D-2000-HY	DIN EN ISO 54540	Hygienic paper	25	2 kPa
D-2000-L1	DIN EN ISO 53326 (out of date)	Leather	0.785	50 kPa
D-2000-L2	DIN EN ISO 2589	Leather	0.785	49.1 kPa
D-2000-Gi		Rubber	10	5 kPa
D-2000-F	DIN 53370	Foil	Kalotte R 30 mm	0.5 N

Custom designed models, which cover differend standards in one instrument are available on request.

**Optional Accessoires**

<b>Code R</b>	Higher resolution 0.001 instead of 0.01 mm
<b>Code M</b>	Motorized feeler movement 2.5 mm/sec, operated by foot plug
<b>Code T</b>	Adjustable measuring time 2 - 32 sec
<b>Code E</b>	Measuring range 0 - 25 mm
<b>Code V</b>	Adjustable measuring range 0 - 10 mm or 0 - 25 mm
<b>Code P</b>	With external power supply for dial gauge

**Software**
**Software P-DMG for thickness gauge Series D-2000**  
 Set up menu for:

<b>Language:</b>	german / englisch
<b>Units:</b>	mm / inch
<b>Charge No</b>	
<b>Statistics:</b>	Aktuell reading
	Average
	Min / Max
	List of all readings
	Data storage as Exel file

**Specifications**

<b>Measuring range:</b>	0 - 10 mm (0 - 25 mm optional)
<b>resolution:</b>	0.01 mm (0.001 optional)
<b>Accuracy:</b>	± 0.02 mm (± 0.002 mm optional)
<b>Units:</b>	mm or inch (switchable)
<b>Display:</b>	LCD 6 digit, 8.5 mm high
<b>Measuring system:</b>	Capazitiv-> sylvac
<b>Depth of gap:</b>	160 mm
<b>Feeler shape and surface:</b>	According to the internationa DIN, EN and ISO standards
<b>Output signal:</b>	RS 232
<b>Temperatur range:</b>	10 - 45° C
<b>Air humidity:</b>	85 % RH max.
<b>Dimensions:</b>	250 x 310 x 300 mm (LxWxH)
<b>weigth, net (gross):</b>	23 kg (26 kg)



**Thickness Gauge with digital display for different textile applications**

**Series D-2010**

These Thickness Gauges can be used to determine the material thickness of all non-woven fabrics. With these instruments the most popular checking methods can be applied for textiles, fleece, felts, geo-materials, paper, floor coverings, leather, foils, rubber, etc., according to the international DIN, EN and ISO standards.

Special Features

- Graphic display for readings and statistics



- Touchscreen for adjusting e. g.:  
Number of measurements 1 - 50  
Measuring path  
Measuring time 1 - 60 sec  
Units mm or inch
- 2 selectable modes: „AUTO“ - executing a series of measurements  
„MAN“ - executing a single measurement
- Time saving during series measuring by ideal adjustment to the measuring problem
- Statistical analysis of series of measurement (Number of measurings, average value, standard deviation)
- Outputs: USB for data transmission  
RS 232 for printer
- Separate measuring block, incased against outside external impacts, for highest accuracy and repeatability
- Rigid housing frame
- Additional weights for different surface pressure values available



Model D-2010-T for textiles

Standard features

- Easy to use
- Standard measuring range 0 - 10 mm
- With selectable units (mm or inch)
- Resolution 0.001 mm
- Calibration report for free, DKD inspection certificate optional

**Available Models**

Model	Standard	Application	Feeler cm <sup>2</sup>	Pressure
D-2010-T	DIN EN ISO 5084	Textiles	20	0.1 kPa and 1 kPa
D-2010-V	DIN EN ISO 9073-2	Fleece	25	0.1 kPa and 0.5 kPa
D-2010-G1	DIN EN ISO 964-1	Geotextiles	25	2 kPa and 20 kPa
D-2010-NW	DIN EN ISO 53855	Fabrics	25	0.5 kPa and 1 kPa
			10	5 kPa
D-2010-P	DIN EN ISO 53105	Paper	2	100 kPa
D-2010-HY	DIN EN ISO 54540	Hygienic paper	25	2 kPa
D-2010-L1	DIN EN ISO 53326	Leather	0.785	50 kPa
	(out of date)			
D-2010-L2	DIN EN ISO 2589	Leather	0.785	49.1 kPa
D-2010-Gi		Rubber	10	5 kPa
D-2010-F	DIN 53370	Foils	Kalotte R 30 mm	0.5 N

Custom designed models, which cover different standards in one instrument are available on request.



### Optional Accessoires

Code E Measuring range 0 - 25 mm

### Software



Software P-DMG for thickness gauges Serie 2010

Set up menu for:

Language:	german / englisch
Units:	mm / inch
Charge No	
Statistics:	Current reading
	Average
	Standard deviation
	List of all readings
	Data storage as Excel file

### Specifications

Measuring range:	0 - 10 mm (0 - 25 mm optional)
Resolution:	0.001 mm
Accuracy:	± 0.002 mm
Depth of jaw:	160 mm
Measuring system:	Capazitive -> Sylvac
Display:	Graphic display with touchscreen
Measuring units:	mm or inch (switchable)
Stroke in mm:	Level 1 = 2.0, level 2 = 3.5, level 3 = 5.0, level 4 = 6.5 and level 5 = 10.5 mm (full measuring range)
Residence time:	1 - 60 seconds
Number of measuring:	Up to 50 per test series
Feeler shape and surface pressure:	According to the international DIN, EN and ISO standards
Output signal:	RS 232 for printer and USB for PC
Temperatur range:	10 - 45° C
Air humidity:	85 % RH max.
Dimensions:	250 x 310 x 300 mm (LxWxH)
Weigth, net (gross):	23 kg (26 kg)

## Thickness Gauge with digital display for different textile applications

### Series D-2020

These Thickness Gauges can be used to determine the material thickness of all non-woven fabrics. With these instruments the most popular checking methods can be applied for textiles, fleece, felts, geo-materials, paper, floor coverings, leather, foils, rubber, etc., according to the international DIN, EN and ISO standards.

#### Special Features

- Graphic display for readings and statistics



- Touchscreen for adjusting e. g.:  
 Number of measurements 1 - 50  
 Measuring path  
 Measuring time 1 - 60 sec  
 Units mm or inch  
 Feed 10 - 100 mm  
 2 different travel speeds
- 2 selectable modes: „AUTO“ - executing a series of measurements  
 „MAN“ - executing a single measurement
- Adjustable, automatic feed by series of measurements  
 (travel: 10 - 100 mm, speed: slow or fast)
- Time saving during series measuring by ideal adjustment to the measuring problem
- Statistical analysis of series of measurement (Number of measurings, average value, standard deviation)
- Outputs: USB for data transmission  
 RS 232 for printer
- Separate measuring block, incased against outside external impacts, for highest accuracy and repeatability
- Rigid housing frame
- Additional weights for different surface pressure values available



Model D-2020-T for textiles

#### Standard features

- Easy to use
- Standard measuring range 0 - 10 mm
- With selectable units (mm or inch)
- Resolution 0.001 mm
- Calibration report for free, DKD inspection certificate optional



## Available Models

Model	Standard	Application	Feeler cm <sup>2</sup>	Pressure
D-2020-T	DIN EN ISO 5084	Textiles	20	0.1 kPa and 1kPa
D-2020-V	DIN EN ISO 9073-2	Fleece	25	0.1 kPa and 0.5 kPa
D-2020-G1	DIN EN ISO 964-1	Geotextiles	25	2 kPa and 20kPa
D-2020-NW	DIN EN ISO 53855	Fabrics	25	0.5 kPa and 1kPa
			10	5 kPa
D-2020-P	DIN EN ISO 53105	Paper	2	100 kPa
D-2020-HY	DIN EN ISO 54540	Hygienic paper	25	2 kPa
D-2020-L1	DIN EN ISO 53326 (out of date)	Leather	0.785	50 kPa
D-2020-L2	DIN EN ISO 2589	Leather	0.785	49.1 kPa
D-2020-Gi		Rubber	10	5 kPa
D-2020-F	DIN 53370	Foils	Kalotte R 30 mm	0.5 N

Custom designed models, which cover different standards in one instrument are available on request.

## Optional Accessoires

Code E	Measuring range 0 - 25 mm
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## Software



Software P-DMG for thickness gauge Series 2020  
Set up menu for:

Language:	german / englisch
Units:	mm / inch
Charge No	
Statistics:	Current reading
	Average
	Standard deviation
	List of all readings
	Data storage as Excel file

## Specifications

Measuring range:	0 - 10 mm (0 - 25 mm optional)
resolution:	0.001 mm
Accuracy:	± 0.002 mm
Depth of jaw:	160 mm
Measuring system:	Capazitive -> Sylvac
Display:	Graphic display with touchscreen
Measuring units:	mm or inch (switchable)
Stroke in mm:	Level 1 = 2.0, level 2 = 3.5, level 3 = 5.0, level 4 = 6.5 and level 5 = 10.5 mm (full measuring range)
Feed:	10, 20, 25, 40, 50, 60, 80 and 100 mm
Residence time:	1 - 60 seconds
Number of measuring:	Up to 50 per test series
Feeler shape and surface pressure:	According to the international DIN, EN and ISO standards
Output signal:	RS 232 for printer and USB for PC
Temperatur range:	10 - 45° C
Air humidity:	85 % RH max.
Dimensions:	300 x 300 x 320 mm (LxWxH)
Weight, net (gross):	35 kg (38 kg)



# Thickness Gauge with digital display

## Model J-40

Thickness gauge to determine the thickness of textiles, fleece, leather etc. This low cost thickness gauge which is similar to Din EN ISO standards, is suitable for quick comparative measurements.

Special Features

- Big foot for on table operation
- With different measuring feelers and measuring pressures available, depending on application
- Optional: Measuring range 0 - 25 mm (Code E)
- Optional: USB converter for data transfer to PC



Opening using the lifting device



Self closing by spring force



Model J-40-T for textiles

Standard Features

- Easy to use
- Digital display with selectable units (mm or inch)
- Zero setting by pushing a button

Overview of the most popular standards

- For textiles according to **DIN EN ISO 5084** (Measuring face 20 cm<sup>2</sup> / pressure 0.1 kPa and 1 kPa)
- For fleece according to **DIN EN ISO 9073-2** (Measuring face 25 cm<sup>2</sup> / pressure 0.1 kPa and 0.5 kPa)
- For leather according to **DIN EN ISO 2589** (Measuring face 0.785 cm<sup>2</sup> / pressure 49.1 kPa)

**Available Models**

Model	Standard	Application	Feeler mm Ø	Feeler shape cm <sup>2</sup>	Pressure
J-40-T	similar DIN EN ISO 5084	Textiles and Non-woven textiles	50.42	20	1 kPa
J-40-V	similar DIN EN ISO 9073-2	Standard fleece	56.42	25	0.5 kPa
J-40-L	similar DIN 2589 (old 53326)	Leather	10	0.785	49.1 kPa

**Specifications**

Measuring Range:	0 - 10 mm (Option 0 - 25 mm)
Resolution:	0.01 mm
Depth of Jaw:	50 mm

Display:	LCD 4-stellig, 8 mm hoch
Dimensions:	103 x 65 x 145 mm (LxBxH)
Weight net (gross):	500 g (1100 g)

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