

Instruction Manual



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1 Warranty and Liability

In principle, the supply of the device is subject to our "General Conditions of Sale and Delivery." These have been provided to the operating company on conclusion of the contract, at the latest.

Warranty:

- Thickness gauges are warranted for 12 months.

Parts subject to wear, electronic components and measuring springs are not covered by the warranty. No warranty or liability will be accepted for bodily injury or property damage resulting from one or several of the following causes:

- Misuse or abuse of the device.
- Improper mounting, commissioning, operation and maintenance of the device (e.g. verification interval).
- Operation of the device if any safeguards are defective or if any safety and protection precautions are not properly installed or not operative.
- Failure to comply with the notices in the Operating Instructions regarding transport, storage, mounting, commissioning, operation, maintenance and setup of the device.
- Any unauthorized structural alteration of the device.
- Insufficient inspection of device components that are subject to wear.
- Opening the device or improper repair work.
- Disasters caused by the effects of foreign objects or by force majeure.

1.1 Notices within the Operating Instructions

The fundamental prerequisite for the safe handling of this device and its troublefree operation is the knowledge of the basic safety notices and safety instructions.

These Operating Instructions contain the most important notices for the safe operation of the device.

These Operating Instructions, in particular the safety notices, must be observed by any person who works with the device. In addition, the applicable local rules and regulations for the prevention of accidents must be complied with.

The representations within the Operating Instructions are not true to scale.

The dimensions given are not binding.

General indications of direction, such as FRONT, REAR, RIGHT, LEFT apply when viewing the front of the device.

1.2 Responsibilities of the Operating Company

In compliance with the EC Directive 89/655/EEC, the operating company agrees to only permit persons to work with the device who:

- are familiar with the basic regulations on industrial safety and accident prevention and who have been trained in handling the device.
- have read and understood the chapter on safety and the warning notices in these Operating Instructions and have confirmed this with their signatures.
- are examined regularly on their safe and conscientious working method.

1.3 Responsibilities of the Personnel

All persons who work with the device agree to perform the following duties before starting work:

- to observe the basic regulations on industrial safety and accident prevention.
- to read the chapter on safety and the warning notices in these Operating Instructions and to confirm with their signatures that they have understood them.

1.4 Informal Safety Measures

The Operating Instructions must always be kept on hand where the device is operated. Apart from the Operating Instructions, the applicable general and local regulations on accident prevention and environmental protection must be provided and complied with.

1.5 Training of the Personnel

Only trained and instructed personnel is permitted to work with the device. The responsibilities of the personnel must be clearly defined for mounting, commissioning, operation, setup, maintenance, and repair. Trainees may only work with the device under the supervision of experienced personnel.

1.6 Intended Use

The device is intended exclusively to be used for measuring the thickness of textiles, felt, geomaterials, paper, floor coverings, leather, foils, rubber. Any other use or any use exceeding this intention will be regarded as misuse. Under no circumstances shall HANS SCHMIDT & Co GmbH be held liable for damage resulting from misuse.

The intended use also includes:

- Complying with all notices included in the Operating Instructions and observing all inspection and maintenance works.

1.7 Dangers in Handling the Device

The device has been designed according to the state of the art and the approved safety standards. Nevertheless, its use may cause serious or fatal injury to the user or third persons, and/or an impairment of the device or of other material assets.

The device may only be applied:

- For its intended use in a faultless condition with regard to the safety requirements.
- Malfunctions that could impair safety must be remedied immediately.
- Personal protective equipment must be used according to the EC Directive 89/686/EEC.



The device must not be operated in potential explosive areas and must not come into contact with aggressive substances.

1.8 Copyright

The copyright on these Operating Instructions remains with the company HANS SCHMIDT & Co GmbH.

These Operating Instructions are intended for the operating company and its personnel only. They contain instructions and notices that may only be reproduced on the prior written permission of

HANS SCHMIDT & Co GmbH

and under indication of the complete reference data.

Violations will be prosecuted.

1.9 EC Declaration of Conformity and WEEE Registration

In compliance with the EC Directive 2014/30/EU



HANS SCHMIDT & CO GmbH is registered in compliance with the German Electrical and Electronic Equipment Act (ElektroG).

2 Available Models

These Operating Instructions refer to Model D-2005-T of the D-2005 Series; they are also applicable to the following models. The individual models of the D-2005 Series are also available with the following feelers and weights:

Model	Standard	Application	feeler cm²	Test Pressure
D-2005-T	DIN EN ISO 5084	textiles	20	0.1 kPa and 1 kPa
D-2005-V1	DIN EN ISO 9073-2	Fleece	25	0.5 kPa
D-2005-V2	DIN EN ISO 9073-2	Fleece	25	0.1 kPa und 0.5 kPa
D-2005-G1	DIN EN ISO 9863-1	Geomaterials	25	2 kPa
D-2005-G2	DIN EN ISO 9863-1	Geomaterials	25	2 kPa, 20 kPa and 200 kPa
D-2005-NW	EN ISO 9073-2	Non-woven textiles	25	0.5 kPa and 1 kPa
D-2005-P	DIN EN ISO 534	Paper	2	50 kPa and 100 kPa
D-2005-HY	DIN EN ISO 54540	Toilet tissue	25	2 kPa
D-2005-L	DIN EN ISO 2589	Leather	0.785	49,1 kPa
D-2005-Gi		Rubber	10	5 kPa
			Feeler Calotte	
D-2005-F	DIN 53370	Foil	R 30 mm	0.5 N

2.1 Specifications

Measuring Range: 0 - 10 mm (Option 0 - 25 mm or 0 - 50 mm)

Resolution: 0.01 mm (Option 0.001 mm)

D-2000-P and D-2000-F: 0.001 mm (Standard)

Accuracy: $\pm 0.02 \text{ mm (up to } \pm 0.002 \text{ mm optional)}$

Units of Measure: mm or inch (switchable)

Display: digital

Measuring System: Capacitiv -->Sylvac

Measuring depth: 110 mm (centre of the stamp)

Feeler Shape and

Surface Pressure: According to international standards DIN, EN und ISO

Output Signal: USB (Sub-D9 socket)
Power supply dial gauge: USB (Sub-D9/USB adapter cable

Power supply motor: AC adapter 100 - 240 V AC, 50 - 60 Hz

Temperature Range: 10 - 45° C **Air Humidity**: 85 % RH, max.

Dimensions: 300 x 240 x 300 mm (L x W x H) Weight, net (gross): approx. 23 kg (approx. 26 kg)

2.2 Delivery Includes

- 1 Thickness Gauge
- 1 Operating manual and certificate
- 1 Sub-D9/USB adapter cable
- 1 USB AC adapter
- 1 AC adapter
- 1 pedal switch
- 1 or 2 additional weights, if applicable (depending on model, see chapter 2)
- 1 Operating manual for dial gauge

Load table

2.3 Unpacking

Unpack the thickness gauge and inspect it for any shipping damage. Notices of defect must be announced immediately, in writing, at the latest within 7 days on receipt of the goods.

2.4 Optional Accessories

Code R	Higher resolution 0.001 instead of 0.01 mm
Code E25	Higher measuring range 0 25 mm
Code E50	Higher measuring range 0 50 mm
P-DMG	Software for data acquisition and display on PC
	Additional weights

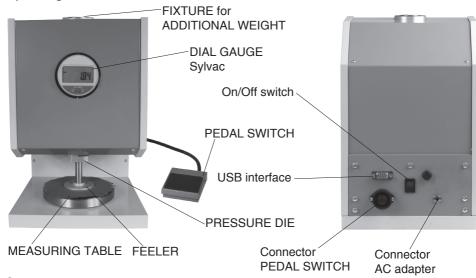
3 Measuring

3.1 Notices Before Starting Measurement



Have you read and understood the Operating Instructions, in particular Chapter 1 "Basic Safety Notices"? You are not permitted to operate the device before doing so. Before working with the device you must put on your personal protective clothing, if necessary. For example, eye protectors, gloves, etc.

3.2 Operating Elements



3.3 Setup

- Set up the thickness gauge on a horizontal, flat surface for use.
- Connect the dial gauge to a power supply: connect the device with the Sub-D9/USB adapter cable to a PC or
 - connect the thickness gauge with the adapter cable and USB AC adapter to a power supply
- Connect the motor to a power supply:
 Connect the device by using the AC adapter with the power supply.
- Connect the PEDAL SWITCH
- Switch on the thickness gauge
- The start menu appears on the DISPLAY.



3.4 Preparations Before Measuring

3.4.1 Setting the Measurement Parameters

Set the parameters as described in the operating manual for the DIAL GAUGE.

3.4.2 Checking and Setting the Zero Point

Requirement:

- Clean the MEASURING TABLE and the bottom of the FEELER.

Zero adjustment:

- Press the SET key on the DIAL GAUGE. The thickness gauge perfoms the zero adjustment, the display shows zero.

3.5 Operating Procedures

Requirements:

- Check the zero adjustment.
- If required by the applicable standard, place the appropriate additional weight on the FIXTURE for ADDITIONAL WEIGHTS.
- Choose the appropriate FEELER required by the standard and attach it to the PRESSURE DIE.
- Select the required measuring unit (mm or inch).

Measuring:

- 1. Press and hold the SWITCH PEDAL to raise the FEELER in the initial position.
- 2. Place the material to be measured on the MEASURING TABLE.
- 3. Remove foot from the pedal switch. The FEELER is lowered at a constant speed until it makes full contact with the material to be measured. You can now perform the test in accordance with the applicable standard.
- 4. The measured value is shown on the digital display.
- 5. Press and hold the SWITCH PEDAL to raise the FEELER.
- 6. Remove the measured material.

Start the next measurement from step 1.



When you are finished measuring, return the FEELER to its home position on the MEASURING TABLE.

3.6 Adjusting the Thickness Gauge to Different Materials

Using different combinations of test weight and feeler shape, you can adjust the thickness gauge to check a wide variety of materials.

3.6.1 Changing the Feeler

The feeler is screwed to the PRESSURE DIE.

- 1. Hold the PRESSURE DIE with one hand to prevent twisting.
- 2. Screw off the FEELER with the other hand.
- 3. Place the FEELER you want to use in the center of the MEASURING TABLE. Then lower the PRESSURE DIE until it reaches into the threaded hole.
- 4. Hold the PRESSURE DIE with one hand and screw the FEELER in by about ½ revolution.
- 5. Move the PRESSURE DIE up, hold it with your hand and carefully screw the FEELER all the way in.
- After a change of the FEELER, zero adjustment has to be carried out. The MEASURING TABLE and the FEELER have to be exactly parallel.

3.6.2 Load Change

On some models (see chapter 2) you can change the pressure applied to the material. This is done by placing an additional weight on the FIXTURE for ADDITIONAL WEIGHTS.



Use only original weights supplied by the manufacturer to ensure that the correct measuring force is applied according to the relevant standard.

3.7 Interface

The measured data can be transferred to a PC over the COM port. Before you can use this feature, you have to extract the P-DMG application on the PC (see chapter 3.8).

3.8 Software (optional)

3.8.1 Overview

The software allows displaying and storing the measured data.

The following instruments are supported:

- D-1000, D-2000 and D-2005

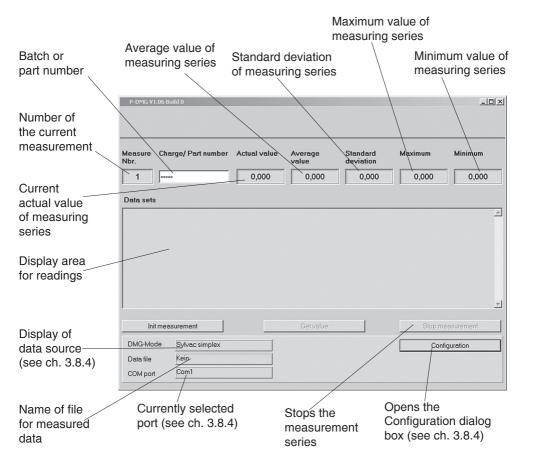
The following storage options are available for the acquired data:

- No data storage
- Storage in Excel format
- Storage in CSV format

3.8.2 Extracting the Software

- Extract the ZIP file from the supplied CD and save it to the appropriate folder.
- Double-Click P-DMG.exe to start the P-DMG application.

3.8.3 User Interface



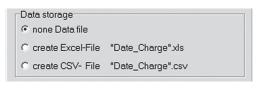
If you want to store the measured data, you need to assign a Charge / Part Number. This information is needed to make up the file name.

3.8.4 Basic Settings

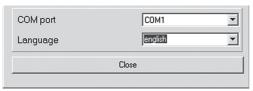
Click the "Configuration" button (see chapter 3.8.3) to open the Configuration dialog box.



 Choose the data source Must be set to "Sylvac-Mode" and "Simplex"



Choose a data storage option:
 No data storage, or data storage as
 Excel or CSV file. The file is created in the program directory.



- Choose the communication port
- Choose a language (English/German)
- Close the Configuration dialog box.

When you have made all your settings, you can close the dialog box. The parameters are saved to the "DMGConfig.ini" file in the program directory and automatically loaded the next time you start the software.



When the software is started for the first time, the data source and port have to be specified.

3.8.5 Measurement Series

Before starting a measurement series, enter a Charge / Part Number. This information is needed to make up the file name.

The file name is made up of the elements "YYYYMMDD_HHMMSS_NNNNN", where:

Y ...Year (four digits)

M ...Month (two digits)

D ...Day (two digits)

H ...Hour (two digits)
M ...Minute (two digits)

M ...Minute (two digits)
S ...Second (two digits)

N ...Name entered in the "Part / Charge number" box

Data acquisition starts as soon as you click the "Init measurement" button. All the data received from then on will be stored.

To stop the measurement series, click the "Stop measurement" button. You can now access the stored data in the program directory.



4 Service and Maintenance

The instrument is easy to maintain. Depending on operating time and load, the instrument should be checked according to the locally valid regulations and conditions.

5 Cleaning

For cleaning the unit, do not use any



AGGRESSIVE SOLVENTS

such as trichloroethylene or similar chemicals.



NO WARRANTY OR LIABILITY

shall be accepted for damage resulting from improper cleaning.

6 Correspondence

Should you have any questions regarding the instrument or Operating Instructions, or their use, please indicate above all the following details which are given on the ID plate:

- 1) Model
- 2) Serial number

7 Repairs

Shipping instructions:

We kindly ask for return free of charge for us, if possible by airmail parcel. All occurring charges, if any (such as freight, customs clearance, duty etc.), will be billed to customer. For return from foreign countries, we ask you to include a proforma invoice with a low value for customs clearance only, e.g. 50 Euro, each and to advise the shipment in advance by fax or eMail.

<u>i</u>

To avoid unnecessary follow-up questions, and the resulting loss of time or possible misunderstandings, please return the instrument with a detailed fault description to our service department. Please indicate in your order whether you require an Calibration certificate done by an DAkkS (DKD) approved laboratory.

