Quick Guide

Gauges for coating thickness measurement

DELTASCOPE® DMP10

DELTASCOPE® DMP30

ISOSCOPE® DMP10

ISOSCOPE® DMP30

DUALSCOPE® DMP20

DUALSCOPE® DMP40

SR-SCOPE® DMP30

Fischer®

Gauges for coating thickness measurement

DELTASCOPE® DMP10 (1007328)	DELTASCOPE® DMP30 (1007331)
ISOSCOPE® DMP10 (1007329)	ISOSCOPE® DMP30 (1007332)
DUALSCOPE® DMP20 (1007330)	DUALSCOPE® DMP40 (1007333)
	SR-SCOPE® DMP30 (1007335)

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Quality Assurance System of the Helmut Fischer GmbH Institut für Elektronik und Messtechnik

DIN EN ISO/IEC 17025	Calibration lab accredited for certified mass per unit area standards
DIN EN ISO 9001:2015	Management system certified by Swiss Association for Quality and Management Systems (SQS)

Quick Guide

DMP gauge family

for coating thickness measurement

valid for the following gauge types

DELTASCOPE® DMP10	**DELTASCOPE® DMP30**
ISOSCOPE® DMP10	**ISOSCOPE® DMP30**
DUALSCOPE® DMP20	**DUALSCOPE® DMP40**
	SR-SCOPE® DMP30

Observe the safety information and follow the instructions in operator's manual!

Detailed operator's manuals and the free-of-charge software program Tactile Suite for data evaluation and archiving can be downloaded from: https://docs.helmut-fischer.com/uum

First Steps – Initial set up

The gauge is in factory delivery condition.

1. Insert the rechargeable battery into the gauge.
2. Charge the rechargeable battery.
3. Connect a probe to the gauge.
4. Switch on the gauge: press the key [⏻] for about 2 s
5. Follow the start routine and set the language, line frequency of local power supply (not SR-SCOPE® DMP30), date and time.

The main menu appears and the initial set up is finished.

What you can do next

- DMP30/40 types: Define a new application (batch)
- DMP10/20 types: Define your application (batch settings)

Gauge description

1. Battery comp. lid, Bluetooth®
2. USB plug, under the lock lug of the compartment lid
3. Visual signal strip
4. Display
5. Operation keys
   [⏻]: on/off
   [☰]: calls up main menu
   ⟨ ◇ ⟩: selects
6. Plug for probe connection and battery fast charging
7. Gauge foot

Navigation with the gauge keys

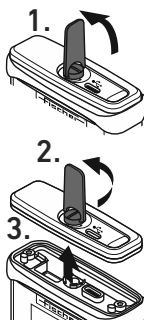| Display	Key	Function
⬍	∧ up ∨ down	Selects – parameter/value
OK	⟩	Confirms – selection/setting Moves – cursor to the right
↰	⟨	Exits – page/menu Moves – cursor to the left
⬓	⟨	Opens the Measurement view
⌖	⟩	Opens calibration/calibration menu

Battery inserting/removing

Type RRC 1130 (3.8 V · 3.81 Ah · 14.47 Wh (supplied))

Open battery compartment	Insert battery Observe the orientation of the battery!	Remove battery

RRC 3.8 V 3.81 Ah 14.47 Wh
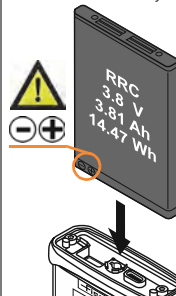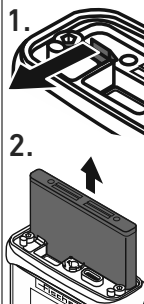
Charge battery

- Charge the battery before the first use.
- USB charger: 2.4 A, 5 V⎓; battery temp.: 0 … 45 °C (32 … 113 °F)
- ▬ = active charging, ▬ = charging finished, Charging status enabled by switched-off gauge only
1. Connect the gauge directly to the PC via a USB cable type C/A (supplied) or to the power supply via a commercially available USB charger.

a.
b.

2. Disconnect the connection when the battery is fully charged.

Connect the probe

ⓘ Connect the probe only when the gauge is switched-off!

Digital probes (D...) with USB C female jack

▶ Use USB C cable (supplied) to connect the gauge with the probe:

Probe

1. **2.**

3.

4.

Analog probes (F...) with 12-pin male jack

▶ Plug in the jack of the probe cable to the DMP-F-Probe-Adapter (1007336):

Mounting DMP-F-Probe-Adapter

Connect the probe

1.

DMP-F-Probe-Adapter

2.

DMP-F-Probe-Adapter

1. **2.**

Switch gauge on/off

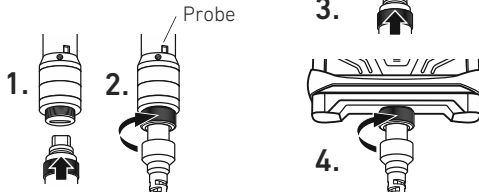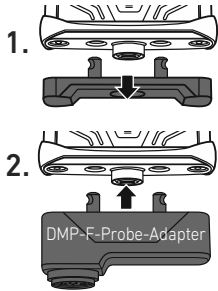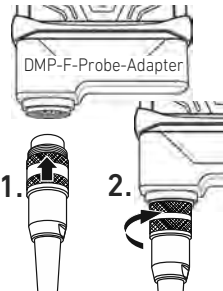▶ Press and hold the [⏻] key for approx. 2 s.
After switching on, the display shows the main menu or Measurement view of the batch that was open when the gauge was switched off.

Perform measurements

1. For DMP30/40 types only, open the measurement view of the desired batch: **☰ > Batches > OK >** *select desired batch* **> OK > MEASURE > OK**

2. All gauge types: Measure, place the probe vertical onto the test piece (example probe D-FN).

Probe

Specimen
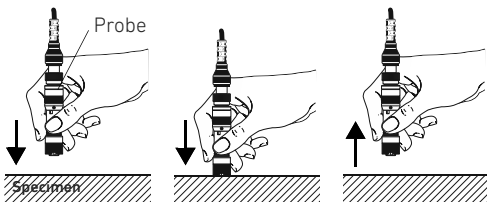
Call up evaluation

▶ Open the evaluation menu of the open batch: **☰ > Statistics > OK**

Define new application (batch)

Possible for DMP30/40 types only.

▶ **☰ > Batches > OK > New > OK >** *select desired calibration* **> OK >** *select desired function(s) and make desired setting(s)* **> MEASURE**

Define application – Batch settings

Signal of meas. acquisition (visible, audible) ■ unit ■ measurement mode (Single Reading, Free Run) ■ ...

▶ Make the desired batch settings for the open batch: **☰ > Batch Modify > OK >** *select desired function(s) and make desired setting(s)*

Define application – Calibration

▶ Perform a calibration: **☰ > Calibrations > OK >** *select desired calibration* **> OK > CALIBRATE >** *follow the routine and perform the displayed calibration steps*

Check calibration

1. Set test parameters: **☰ > Calibrations > OK >** *select desired calibration* **> OK > Def. Cal. Check > OK >** *select/set the desired test parameters*

2. Perform the check routine: **☰ > Calibrations > OK >** *select the desired calibration* **> OK > Check Calibration > OK >** *perform the test measurements according to the check routine*

Data transfer by Tactile Suite software only

Connect the gauge via USB or Bluetooth® (DMP30/40 types only) with the PC, on which the software Tactile Suite is installed.

▶ Call up the Tactile Suite and select your connected gauge.
The software immediately gives an overview of batches and data stored on the gauge.

📖 How to use the Tactile Suite, please refer to the software operator's manual.

Gauge settings

Language ■ Display settings ■ audible and visible signals ■ Date & Time ■ locking selected calibrations ■ ...

▶ Make the desired gauge settings: **☰ > Gauge Settings > OK >** *select the desired function(s)* **> OK >** *make the desired function setting(s)*

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