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STRUMENTI & SERVIZI
per il sistema qualità

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INTRODUCTION

Congratulation ! You really made a good choice to decide for

EASY-CHECK FE,

because this device is not only designed and manufactured according to the latest level of technology, but also is extremely comfortable and easy to operate.

EASY-CHECK FE is especially designed for those users who need to measure only on ferromagnetic iron and steel and wish to do this job as simple as possible. Therefore we knowingly did not include a data memory .

We tried our best to write this manual as clear and short as possible. For any further information you may need, please contact our Service Department. Our technicians are always ready to help you.

What can you measure with the EASY-CHECK FE ?

All non-magnetic coatings, such as varnish, paint, plastics, enamel, rubber, ceramics and galvanization (except niquel) up to 5mm on iron and steel.

EASY-CHECK FE is equipped with a new swinging measuring probe allowing to measure inside pipes and in other inaccessible places.

EASY-CHECK FE is provided with a serial interface making it possible to measure *online* for further data evaluation. You just need the Statistics Software STAT-6 and an interface cable.

And this is really unique:

- **EASY-CHECK FE can measure up to 80 hours with only one 1.5V Mignon battery.**
- **Worldwide the only device with a swinging measuring probe allowing to measure inside pipes and in other inaccessible places.**

SHORT INSTRUCTIONS

To make it as easy as possible for you and to be able to start taking measurements immediately, we have already calibrated the device.

You receive the instrument ready for operation and do not need to perform any adjustments.

You just switch on the device with the red key. In the display flashes shortly the number of the software version and then appears <on>.

That's all and now you can start taking measurements.

FUNCTION MODES

Switch on the instrument until *<on>* is displayed. Now release the key shortly and then press the key again for a longer time. The following function modes are displayed:

un = Change the unit of measurement (μm / mils)
↓
rES = Switch over the resolution: 0.1 or 1.0 μm

By pressing the key the mode selected is confirmed.

OPERATION OF THE FUNCTION MODES

<Un> Change unit of measurement (μm / mils)

In its basic setting the instrument measures in μm .

To measure in “mils” (American unit of measurement) press the key until the symbol *<un>* is displayed. Release the key and press it again to confirm.

When you switch on again the instrument it measures in “mils”.

To change over to “ μm ” proceed in the same way.

<rES> Resolution

From factory the device is adjusted to the resolution 1.0 μm .

To switch over to the resolution 0.1 μm press the key until *<rES>* is displayed. Release the key shortly and press it again to confirm the setting.

CALIBRATION

You receive the device already calibrated. Nevertheless from time to time it is necessary to check or correct the calibration. This is especially recommended when you measure on small or curved objects or when the surface of the test object is rough.

To calibrate the device you should always use the shim with the higher value (approx. 300 μm). The shim with the lower value (approx. 100 μm) is only supplied to verify the accuracy after calibration.

- Switch on the device.
- Set the device with the probe on the base plate FE (blue) and press the key for about 2 sec until <0.0> is displayed stable. Then release the key and zero setting is performed and confirmed by a beep signal
- Take off the device, <cA/> is flashing.
- Press the key and the actual calibration value is displayed. This value should be identical with your shim value (approx. 300 μm). If it is not, you now can enter the correct value. Pressing the key shortly the value goes down by 1, pressing it continuously the value scrolls up.
- Once the correct calibration value is set, place the shim (approx. 300 μm) on the base plate FE (blue) and set the device on the shim and wait until the beep sounds.

The device is calibrated.

To perform just a one-point calibration and after having set the zero point, you can go on taking measurements while <cA/> is flashing. The flashing <cA/> disappears on the display as soon as a new measurement is taken.

When measuring on small or curved objects it is advisable to perform calibration on a bare test object with the same geometry of the object to be measured and not on the base plate supplied with the device.

EXCHANGE OF THE BATTERY

As soon as the symbol <BAT> is flashing the battery must be exchanged by a new one.

When the voltage of the battery is less than 0.8 V the device switches off by itself.

CHARGE THE 1.2V RECHARGEABLE BATTERY WITH THE LINE-CHARGING UNIT

As soon as the symbol <BAT> is flashing the rechargeable 1.2V Mignon battery must be charged.

Important: Before inserting the charging connector into the interface plug of EASY-CHECK FE the device must be switched off.

The charger must not be connected when the 1.5V battery is inside the device. The battery may run out and destroy the device !

With the device switched off the charging connector is inserted into the interface plug of EASY-CHECK FE. The device switches on by itself and a bar diagram with the battery symbol is displayed. With the charger connected you can go on taking measurements.

After approx. 20 sec the state of charge is displayed again provided no measurement is taken. When the charger is connected the automatic switch off is deactivated.

The rechargeable battery needs approx. 8 hours to be charged completely. A constant bar diagram is flashing together with the battery symbol and the charger can be removed.

GENERAL REMARKS

Thickness of the base material: at least 300 µm

Automatic switch-off

The instrument switches itself off automatically one minute after the last measurement. The instrument can also be switched off with the red key.

IMPORTANT

The probe should not be drawn across the testing surface but reset at different spots, i.e. after each measurement hold the instrument in the air for about 1 sec. In doing so the stored calibration is automatically checked and corrected if necessary.

Make sure that the probe surface and the base plate are kept clean and polished at all times.

OPTIONAL ACCESSORIES

ONLINE Measurement: Graphic Statistics Software STAT-6
Interface cable

Line-Charger with 1.2V Mignon battery

TECHNICAL DATA

Measuring Technique:	Magnetic induction on iron and steel (ISO 2178)
Measuring Range:	0 - 5000 μm
Indication:	LCD 3½ digits with floating decimal point and guides for operation
Resolution:	selectable 1.0 μm or 0.1 μm
Accuracy:	below 100 μm : $\pm 1 \mu\text{m}$ 100 - 1000 μm : $\pm 1 \%$ 1000 - 2000 μm : $\pm 3 \%$ > 2000 μm : $\pm 5 \%$
Power Supply:	1,5V Mignon battery (1.2V rechargeable battery with charger available)
Measuring Probe:	swinging by 90°
Dimensions:	108 x 48 x 38 mm
Weight:	approx. 100 g
Warranty:	Indication unit: 12 months Measuring probe: 3 months