

# Ferrite content meter FERRITE-CHECK 140

for ferrite content measurement in austenitic and duplex steels



#### **Ferrite content measurement kept simple**

The **List-Magnetik FERRITE-CHECK 140** ferrite content meter is a compact and handy device with an integrated probe for measuring the ferrite content in austenitic and duplex steels according to the Basel standard DIN EN ISO 8249 using the magnetic induction method.

#### **Display of the ferrite content via OLED display**

With a single button and the self-explanatory multilingual menu navigation, the ferrite content meter is very easy to use. The illuminated and high-contrast OLED display shows the measurement in FN and Fe%.

#### **Measure ferrite content in welds**

Especially for welded duplex steels, a ferrite content measurement is important to know, if the weld has enough ferrite content to guarantee the strength of the weld. If there is insufficient heat input or cooling in the weld area, the ferrite content may be too low.

#### **Fast and continuous ferrite content measurement**

With **FERRITE-CHECK 140**, the ferrite content can be determined very accurately and quickly. To detect the weld seam on smooth or polished surfaces, the instrument can be switched to fast continuous measurement. When the probe is placed on the surface and moved along the surface, measured values are continuously stored and, after the probe is lifted off, the statistics consisting of the minimum, maximum and average values of the series of measurements are displayed.

#### **Measurement data on PC and mobile device through Bluetooth Low Energy interface**

To further process your measurement data, you can couple your FERRITE-CHECK 140 with mobile Android and iOS devices. Or you can communicate with a Windows PC. Bluetooth Low Energy (BLE) technology makes this possible. With the Lima Connect App, you can manage projects and assign measurement points on a photo. The measurement results can be statistically evaluated and graphically displayed. The app for Android, iOS and Windows is free.



### Calibrating the ferrite content meter

The **FERRITE-CHECK 140** ferrite content meter is supplied with 3 calibration standards traceably calibrated to the NIST standard.

## Performance table and technical Data **FERRITE-CHECK 140**

Application:	Measurement of ferrite content in austenitic and duplex steels
Measuring range:	1 - 100 Fe%, 1 - 140 FN
Measuring method:	Single measurement or continuous measurement with averaging
Smallest measuring area:	Ø 2 mm
Resolution:	until 10: 0.01, above 10: 0.1
Ambient temperature:	0 – 50 °C
Display:	illuminated high-contrast graphic OLED display
Menu navigation:	English, German, French, Italian, Spanish, Hungarian, Polish, Dutch
Data logger:	4000 measured values flexibly divisible
Statistics:	count / maximum / minimum / average / standard deviation
Interface:	Bluetooth Low Energy interface for communication with Android, iOS and Windows
App for Android, iOS, Windows:	free of charge via Google Play Store, Apple App Store, List-Magnetik website
Power supply:	1x 1.5 V AA Mignon
Operating time:	approx. 30 hours
Dimensions:	Ø 28 x 94 mm
Weight:	72 g (with battery)



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