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# Ferrite Content Meter FERRITE-CHECK 140

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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.

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.

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

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 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.

### Technical Data Ferrite Content Meter 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:  $\varnothing$  2 mm
- Accuracy: 5 %
- 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:  $\varnothing$  28 x 94 mm
- Weight: 72 g (with battery)

