MMS® Inspection

Designed for **corrosion protection**

fischer®

Out of limits immediately visible:
Multi-sensory feedback via LED light, sound and vibration shows you at all times whether your readings are within tolerance.

Wide measurement range:
You can measure up to 2500 µm on FE (Magna) and 2000 µm on NF (Eddy) with just one device.

130 mm

Modern user interface:
The automatically rotating display is always easy to read. Even in poor lighting conditions. The user interface guides intuitively through all functions.

Safe one-handed operation:
The robust, IP65-compliant device can be safely operated with just one hand. The keys are easy to reach and have a good tactile feedback. The three-point support allows you to achieve better measuring repeatability.

Developed with experts:
MMS® Inspection DFT meets all standards in heavy corrosion protection and comes with preconfigured batches for SSPC-PA 2, IMO PSPC, ISO 19840, Australian AS 3894.3 B, Swedish IS 18 41 60 etc.

As flexible as your application:
The dual probe[1] of the MMS® Inspection DFT delivers high precision measurement results and the gauge automatically selects the correct measurement method (ISO/FE, NF/FE and ISO/NF).

Long battery life
Enjoy at least 14 hours of usage with every charge.

[1] Optionally available

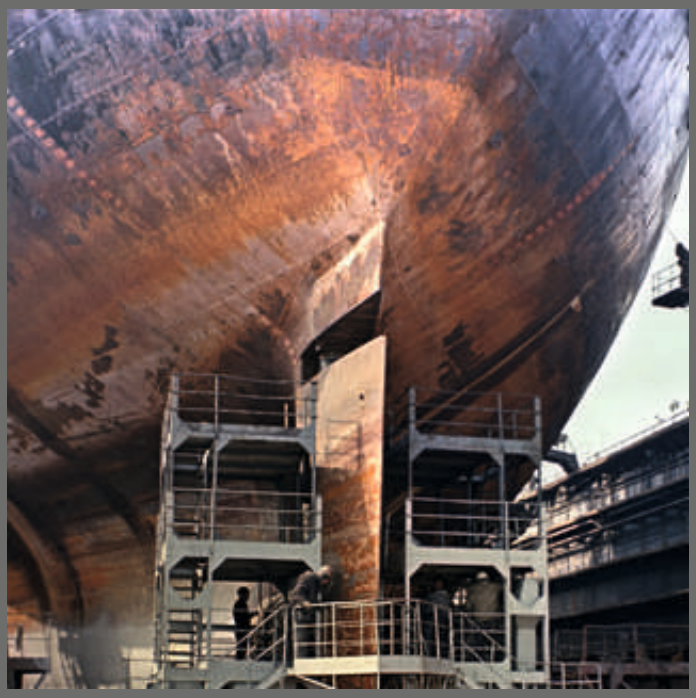
MMS® Inspection DFT

Flawless hat-trick for heavy corrosion protection

Have your profile under control:
With the MMS® Inspection SPG you can measure the surface profile in the blink of an eye. Conforms to ASTM D 4417, Method B.

Dew point measurement made easy:
The MMS® Inspection DPM measures humidity, air and surface temperature for determining the dew point.

Corrosion protection starts well before the first coat of paint. The MMS® Inspection corrosion kit comprises of three devices that are needed before, during and after surface coating. With the SPG, you can reliably measure the surface profile. The DPM provides all the necessary data for determining the dew point. The powerful DFT is your mobile companion for all coating thickness tasks (ferrous and non-ferrous substrates). Optionally available: the Fischer Bresle Test Kit, which allows you to check surfaces quickly and easily for contamination with salt.



SHIPBUILDING | INFRASTRUCTURE | OFFSHORE WIND FARMS | CHEMICAL PLANTS

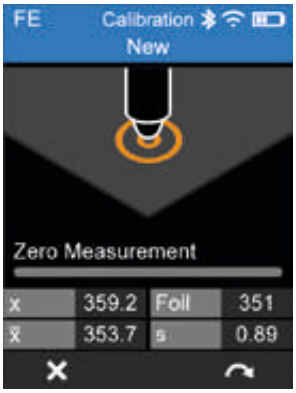
Made for corrosion protection

The MMS® Inspection series sets new standards not only in terms of durability, it is also a prime example of high efficiency. The IP65-compliant product line delivers reliable measurement data that can be transmitted to your quality control software. Moreover, the triple set is one of the most rigorously tested handheld measuring instruments from Fischer.

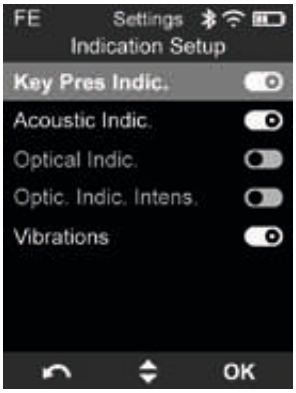
The precise dual probe of a MMS® Inspection DFT gauge recognizes the base material automatically. This makes it the perfect solution for layer thickness measurement on both rough and smooth surfaces, e.g. in ship-building, offshore wind turbines, bridges or petrochemical plants.

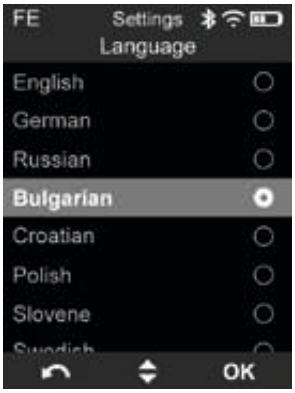
The new Fischer user interface helps you get the job done in no time

Easy calibration process: A good gauge only provides meaningful measurement data if it has been properly calibrated in advance. The new graphical user guide shows you which stage of the calibration you are currently at and navigates you through the calibration process.



Individual configuration: All MMS® Inspection gauges can be optimized to meet your needs. For example, whether the device confirms each measurement visually, acoustically or by vibration. Further preferences can be chosen in the area of statistical analysis.





MMS® Inspection DFT – perfect for all corrosion inspection tasks

Easy and efficient

The MMS® Inspection gauges combine efficiency with ease of use. Batches like SSPC-PA 2, IMO PSPC etc. are preconfigured in the corrosion models. The user interface is intuitive so that users without prior training are able to start measuring easily. Four large buttons allow operation with only one-gloved-hand. The three-point support enables precise measuring in all situations. LED light, sound and vibration give immediate feedback on the correctness of the measurement.

Durable and robust

Due to their dust-proof and splash-proof housing, all MMS® Inspection gauges including the DFT, SPG and DPM variants are ideal for use in very harsh conditions. The operating temperature ranges from -10 to 60 °C. The scratch-proof, high-contrast display rotates according to the operator's angle. This keeps measurement data clearly visible at all times. The wear-resistant probe tip is designed for long-term reliable results.

Accurate and precise

Like all Fischer systems, MMS® Inspection gauges are high quality products. The integrated dual probe of the DFT variant incorporates the know-how and expertise of the global technology leader in the field of coating thickness measurement. Thus, DFT devices also excels with high reliability when measuring very thin layers.

Specifications for MMS® Inspection DFT with dual probe (FE/NF)

- Measures according to international standards: SSPC-PA 2 with Levels 1 – 5, IMO PSPC, ISO 19840, Australian AS 3894.3 B, Swedish IS 18 41 60 etc.
- Measuring ranges:
  0 – 2500 µm on FE / 0 – 2000 µm on NF
- Accuracy:
  0 – 100 µm: ≤ 1.0 µm
  100 – 1000 µm: ≤ 1.5 %
  1000 – 2500 µm: ≤ 3.0 %
- Measurements of paint, varnish, rubber or plastic coatings, chrome or copper coatings, both electro and hot dip galvanized coatings on steel and iron (ISO/FE, NF/FE)
- Measurements of paint, varnish or plastic coatings on aluminium, copper or brass (ISO/NF) with dual probe
- Available with dual probe: magnetic induction method and amplitude sensitive eddy current method (with patented conductivity compensation)
- Statistical functions such as mean value, coefficient of variation, standard deviation, maximum and minimum
- Scan mode 150, normal mode 70 readings per minute
- "Dust tight" and protected against water projected from a nozzle
- Operation temperature:
  -10 to 60 °C (14 to 140 °F)
- Available with large memory space for 250,000 readings in 2500 batches
- Battery life with at least 14 hours of use
- Dimensions: 130 × 73 × 45 mm (H × W × D)
  Weight (incl. batteries): 250 g

MMS® Inspection SPG and DPM – complete the hat-trick

Expert device for measuring surface profile

MMS® Inspection SPG gauges have the same efficiency and easy handling like the entire product range. The SPG checks the surface profile within minutes. This makes it crucial when applying corrosion protection layers.

Reliable roughness evaluation

SPG variants of the MMS® Inspection series measure peak-to-valley height differences according to ASTM D4417, Method B. This makes them suitable for depth measurements of surface profiles meeting regulations and guidelines such as SSPC-PA17. Thus, MMS® Inspection SPG gauges are configured for preparing corrosion protection applications. This is important as the primer coating needs to adhere sufficiently to the surface without peaks protruding out of the corrosion protection coatings.

Specialized for determining the dew point

To complement the hat-trick, MMS® Inspection DPM gauges are used to measure and record climatic parameters that are relevant for coating processes. With integrated measuring probes, these devices are optimized for single-handed operation. As an add-on option, the DPM can also be equipped with external magnetic temperature sensors.

Precise monitoring

DPM variants of the MMS® Inspection series reliably measure relative humidity, air temperature and surface temperature. From this, the dew point and temperature difference between dew point and surface temperature can be determined. This makes the DPM ideal for determining all relevant climatic factors when applying corrosion protection coatings.

Specifications for MMS® Inspection SPG

- Surface profile measurement according to ASTM 4417-B, SSPC-PA17, SANS 5772, US Navy NSI 009-32, US Navy PPI 63101-000
- Measuring range:
  0 – 500 µm
- Trueness:
  0 – 100 µm: ≤ 3 µm
  100 – 500 µm: ≤ 3 % of nominal value
- Available with large memory space for 250,000 readings in 2500 batches
- Battery life with at least 14 hours of use
- Dimensions: 151 × 73 × 45 mm (H × W × D)
  Weight (incl. batteries): 392 g

Specifications for MMS® Inspection DPM

- Monitoring climatic ambient conditions (dew point, air temperature, surface temperature, relative humidity)
- Measuring ranges:
  -20 to 60 °C (-4 to 140 °F; air temp.)
  -20 to 80 °C (-4 to 176 °F; surface temp.)
  0 to 100 % relative humidity
- Trueness:
  20 to 50 °C: ±0.1 °C (air temp.)
  ±0.5 °C (surface temp.)
  ±1.5 % (relative humidity)
- Available with large memory space for 250,000 readings in 2500 batches
- Battery life with at least 14 hours of use
- Dimensions: 186 × 73 × 45 mm (H × W × D)
  Weight (incl. batteries): 259 g

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