

# MPO AND MPOR SERIES

Robust, handy and lightweight – with the devices of the MPO and MPOR series you measure coating thicknesses easily, quickly and non-destructively. With two illuminated displays, a sturdy housing and the intuitive user interface, they are your ideal companion for onsite use.

## FEATURES

### MPO



Basic model, probe integrated in the device  
Measured value memory: 1,000 in one batch  
Without USB interface

### MPOR



Comfort model, probe integrated in the device  
Measured value memory: 10,000 in one batch  
Rotatable display  
Easy data transfer via USB interface  
Preinstalled measurement modes

### MPO-FP AND MPOR-FP(W)



Comfort model, fixed probe with cable or fixed angled probe for challenging geometries  
Measured value memory: 10,000 in one batch (MPOR-FP(W)), 1,000 in one batch (MPO-FP)  
Rotatable display (not MPO-FP)  
Easy data transfer via USB interface (not MPO-FP)  
Preinstalled measurement modes

## DUALSCOPE®



Measurement of non-magnetizable or electrically non-conductive coatings on magnetizable or non-magnetizable, electrically conductive base materials

### Application examples

Layer	ISO	Anod. coatings	Paint	Varnish	Plastic
Base Material	NF	Al	Al	Cu	CuZn

Layer	ISO	NF	Paint	Varnish	Zn	Cr	Cu
Base Material	FE	FE	Steel	Fe			

### Test method

Amplitude-sensitive eddy current test method and magnetic induction test method

## ISOSCOPE®



Measurement of electrically insulating layers on non-magnetizable, electrically conductive metals

### Application examples

Layer	ISO	Anod. coatings	Paint	Varnish	Plastic
Base Material	NF	Al	Al	Cu	CuZn

### Test method

Amplitude-sensitive eddy current test method

## PERMASCOPE®



Measurement of non-magnetizable layers on magnetizable base materials

### Application examples

Layer	ISO	NF	Paint	Varnish	Zn	Cr	Cu
Base Material	FE	FE	Steel	Fe			

### Test method

Magnetic induction test method

ISO Electrically non-conductive (isolating) Example: Varnish

NF Non-magnetic (not ferritic, electrically conductive) Example: Zinc

FE Magnetic metal (ferritic) Example: Iron

# MPO AND MPOR SERIES

**Built to last:** Suitable for thousands of measurements thanks to low wear probe pole

**Ideal for onsite use:** Compact design and 2-display solution

**Perfect fit:** The devices of the DUALSCOPE® family automatically select the right test method for your measuring task

**Up to all challenges:** Precise measurement on many surfaces in a wide range of coating thicknesses

**Flexible:** Available in many different configurations depending on requirements

**Compact:** Fits in any pocket



Corrosion protection in crane

## The small all-rounders for mobile coating thickness measurement

The measuring devices of the MPO and MPOR series are the compact solution for simple, onsite coating thickness measurement. Practical to use, robust to handle: Use these small handheld devices to measure the thickness of coatings on virtually all metals. Thicknesses for paint or hot-dip galvanized coatings can be determined easily, quickly, and non-destructively for quality control or corrosion protection.

Due to the differently equipped measuring devices, the MPO and MPOR device series always offers the optimal solution for your application. Both smooth and rough surfaces, and even very thin coatings, can be measured with high precision. Thanks to their three-point support, the instruments can also be placed securely so as to more reliably determine the coating thickness. The integrated conductivity compensation can also equalize differences in the conductivity of non-ferrous metals.

### Features

- Leading industrial instrument series for fast and easy coating thickness measurement in corrosion protection and industrial applications
- Test method: Magnetic induction and amplitude-sensitive eddy current
- Measured value memory: 10,000 (MPOR) or 1,000 (MPO) in one batch
- Measurement range MPOR:
  - DUALSCOPE®: 0 - 2.000 µm
  - ISOSCOPE®: 0 - 1.200 µm
  - PERMASCOPE®: 0 - 2.500 µm
- Limit monitoring via light
- Probe integrated in the device, FP(W) models with attached closed probe for a wide range of applications



Measurement of anodizing on aluminum frames for building cladding



Measurement at axis connection



### VIDEO:

Scan QR code to experience unboxing, calibration and getting started of the MPO/MPOR family.