

PaintChecker **MOBILE** LASER

The **PaintChecker MOBILE LASER** is a photothermal measuring device used for the non-contact and non-destructive determination of coating thicknesses in accordance with DIN EN 15042-2. It is suitable for use with wet or dry organic coatings such as paints and glazes, both solvent and water-based, on various substrates, including metal, extruded rubber and ceramics.



Made of aluminum, it is designed to be used manually and includes a laser that is safe for the eyes as well as measurement data recording.

The fabricated cable that connects the sensor and the evaluation unit is 0.8 m in length.

| Item | Value/Value range |
|-------------------------|---------------------------------------------------------------------------------------------------------|
| Coating thickness range | typ. 1 - 300 μm (metallic substrate)* typ. 0 - 60 μm (non-metallic substrate)* |
| Field size | $\varnothing = 0,5 \text{ mm}$ |
| Repetition rate | max. 1 Hz* |
| Measuring period | 64 .. 1.024 ms* |
| Laser class | 1M |
| Laser power | max. 0,5 W |
| Laser operating mode | Pulsed operation |
| Resolution | approx. 1% of current measuring value** |
| Messgenauigkeit | approx. 3% of current measuring value** |

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| | |
|--------------------|-----------------------|
| Measuring distance | 16 mm |
| Distance tolerance | ± 1 mm |
| Angle tolerance | $\pm 15^\circ$ |
| Dimensions | L = 110 mm, W = 25 mm |
| Weight | approx. 50 g |

* Depends on coating thickness/set of parameters

** Depends on paint/substrate combination

Sensor

With the lightweight, easy-to-use sensor, measurements can be made directly by hand.

With its optomechanical structure, the sensor can also be used in the immediate vicinity of the paint application.

Controller-Unit

The controller is contained in a rugged aluminum housing. All of the settings can be selected and modified conveniently with the membrane keypad using a context-related menu that is easy to understand. The measuring values are saved in measuring series for immediate or later use.

| Item | Value/Value range |
|--------------|---------------------------------------------|
| Power supply | 4 rechargeable batteries, Li-ion, Type 1450 |
| Interface | USB |
| Dimensions | L x W x H = 180 x 80 x 42.5 mm |
| Weight | approx. 700g |

The USB connection is used for communicating with a PC. The software allows complete control over the measurement procedure and storage of measurement data.

Scope of delivery

The measuring system is delivered in a sturdy transport case.

The scope of delivery includes:

- Sensor with connection cable

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- Controller unit with protective holster
- Reference glass for calibration
- Li-Ion rechargeable battery set (4 batteries)
- Battery charger
- Manual
- Software + USB cable

