

ONLINE MEASURING DEVICE

LTMD 2-4-HC

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The LTMD 2-4-HC is an efficient solution for continuous measurement on tracks as well as for continuous or point measurement in switches. The online measuring device LTMD 2-4-HC can be used for grooved rails and standard Vignol rails in track systems with track gauges 900-1435 mm and enables simultaneous measurement of the left and right rails. The following measuring methods are integrated:

- Rail head transverse profile
- · Rail head longitudinale profile
- Eddy current testing
- Track gauge measurement

The online measuring device can be coupled to a rail vehicle directly. It can be controlled by defined reference points on the rail automatically.

The LTMD 2-4-HC has a standard USB interface. The measurement data is stored in the form of raw data and printable files on hard disk and USB stick and can be sent directly via Bluetooth or e-mail.

The measurements are recorded and calculated in accordance with the applicable EN standards.

Technical data of LTMD 2-4-HC with online touch panel

Device operation data

Length x width x height $1.150 \times 1.150 \times 850 \text{ mm}$

Weight 60 kg
Operating time 8 hours

Temperature operating range $-10 \,^{\circ}\text{C}$ to +65 $^{\circ}\text{C}$

Data storage 400 km
Trolley measuring speed 1-10 km/h
Protection class IP65

Monitors 2x Panasonic "Toughbook"

10,1 Zoll

Operating system Windows 10

Data transmission via USB, Bluetooth, E-Mail

Accessories: Transport case

Calibration tools DIN1319



Details of the integrated measurement methods

Transverse profile measurement

 Measurement methods
 contactless, laser-based

 Horizontal detection zone
 ≤ 100 mm

 Horizontal resolution
 0,1 mm

 Vertical detection zone
 50 mm

 Vertical accuracy
 ≤ 0,01 mm

 Scan frequency
 2000 Hz

 Recording time per measurement

(including pdf-creation) \leq 1 sec Standard EN 13231

Longitudinal profile measurement

Data evaluation 4 wave ranges,

separately evaluable

Measurable wave lengths 10-30/30-100/

100-300/300-1000 mm

Vertical measuring range -3,5 to +2,5 mm

Measuring point distance 2 mm

Measurement accuracy ≤ 0,005 mm

Running band adjustment flexibel / continuous

Standard EN 13231

Eddy current testing

Number of test channels 4 per rail

Inspection angle +7°, +11°, +21°, +45°

Inspection speed up to 10 km/h
Standard EN 16729

Track gauge measurement

Possible track gauges 900 / 1000 / 1435 mm

Measuring ranges preset track gauge



DEVELOPMENT - DESIGN - MANUFACTURING - SALE - SERVICE

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