



L & S Luddeneit und Scherf GmbH
Wimmlerstraße 25
D-07806 Neustadt an der Orla
GERMANY

www.l-und-s.de
Tel.: +49-36481-5645-0
Fax: +49-36481-5645-19



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 data

Length x width x height	.....	1.150 x 1.150 x 850 mm
Weight	.....	60 kg
Operating time	.....	8 hours
Temperature operating range	.....	-10 °C to +65 °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 flash drive, Bluetooth, E-Mail

Scope of delivery

- Calibration tools DIN1319
- Software package
- 1x laptop
- Accessories
- Documentation
- Transport case

Details of the individual 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)	.....	≤ 1 sec
Standard	.....	EN 13231

Longitudinal profile measurement

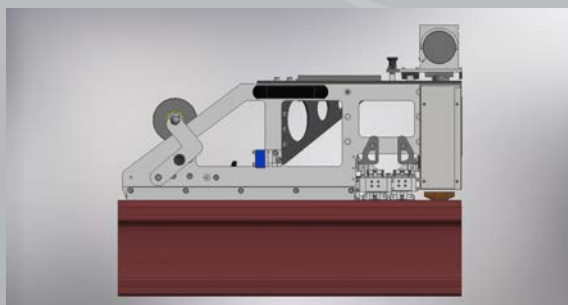
Data evaluation	.....	4 wave ranges, separately evaluable
Measurable wave lengths	.....	10-30/30-100/ 100-300/300-1000 mm
Vertical measuring range	.....	-3,5 to +2,5 mm
Measuring point distance	.....	2 mm
Measurement accuracy	.....	≤ 0,005 mm
Running band adjustment	.....	flexibel / continuous
Standard	.....	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 (± 35 mm)
Measurement accuracy	≤ 0,1 mm



DEVELOPMENT - DESIGN - MANUFACTURING - SALE - SERVICE

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