

ML-1360/25

the system for measuring the back-to-back dimension

The measuring system is intended for measuring the back-to-back dimension of a railway wheel and determining its basic parameters. The measuring system is composed from a measuring unit and evaluating PC. The measuring unit ML-1360/25 is designed as to meet the requirements imposed on the wheelset measurement, to ensure the highest precision of the measurement, and to eliminate potential measurement errors. As the evaluating PC a notebook computer is used.

Both the devices are connected with a standard wireless communication technology IEEE 802.11 Wi-Fi.

The system allows measuring both dismantled wheelsets and the wheelsets on the vehicles and trainsets in operation, without necessary dismantling any vehicle parts. Based on the measurement and on its visualisation, the system compares the real measured values with the threshold values and creates a measurement report. The system allows installing additional software modules for a deeper data analysis.

Basic technical parameters ML-1360/25

Measurement range on the x-axis	25 mm
Reference value	1360 mm
Sensor resolution on the x-axis	0.005 mm
Laser class	2EIC 60825-1:2008-05
Operating temperature range	0 to +50 °C
Storage temperature range	-20 to +70 °C
Dimensions	1320 x 100 x 90 mm
Weight	2.2 kg (4.85 lbs)
Communication	Wi-Fi, range ca 100 m
Power supply	Li-Ion 3,7 V / 5,8 Ah
Measurement time – low resolution	ca 1 s
Measurement time – high resolution	ca 2 s
No of measurements to one charge cycle (1 measurement / 1 min)	ca 2000 measurements

