EXACTIS CZ

17.listopadu 237
530 02 Pardubice

info@exactis.cz
www.exactis.cz

MD-12/6

System for measuring the railway wheel diameter

The measuring system is intended for measuring the railway wheel diameter. The measuring system is composed from a measuring unit and evaluating PC. The measuring unit MD-12/6 is designed as to meet the requirements imposed on the wheel diameter measurement, to ensure the highest precision of the measurement, and to eliminate potential measurement errors. The measurement is done by a precise laser sensor. The measuring device is attached to the wheel using a magnet. 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 dismounted wheelsets and the wheelsets on the vehicles and trainsets in operation, without necessary dismounting 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 MD12/6

Measurement range of diameter	600-1200 mm
Sensor resolution on the x-axis	0.002 mm
Resolution on measuring the wheel dia.	0.1 mm
Operating temperature range	0 to +50 °C
Storage temperature range	-20 to +70 °C
Dimensions	320 x 120 x 50 mm
Weight	1.45 kg (3.2 lbs)
Communication	Wi-Fi, range ca 100 m
Power supply	Li-Ion 3.7 V / 5.8 Ah
No of measurements to one charge cycle (1 measurement /1 min)	ca 2000 measurements