

Real
IRI
from a
tablet
or
phone.



ROUGHOMETER 4

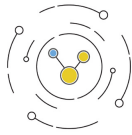


The Roughometer 4 continues a tradition established over twenty years. It provides a simple, portable and highly repeatable measurement of road roughness on sealed and unsealed roads. The Roughometer 4 is a World Bank Class 3 response-type device, that measures IRI directly from the axle movement using a precision accelerometer. This eliminates uncertainties associated with the vehicle, such as the vehicle's suspension or passenger weight.

The unit utilises a wireless distance sensor and can be operated with most Android phones or tablets. The software displays collected surveys on a Google Maps interface and allows for MP3 voice recording of events. Survey data is stored on the Android device, with the amount of collected data only limited by the storage capacity of that device. The unit is operated using two wireless buttons mounted on the vehicle dashboard or steering wheel.

Applications

- Provide objective data for true evaluation of the roughness level of the road
- Objectively compare and analyse which roads are in need of repair
- Monitoring roughness deterioration trends on both sealed and unsealed roads



RESPONSE TYPE DEVICE COLLECTING ACCURATE ROUGHNESS DATA

Features

- Accurate and repeatable outputs regardless of vehicle type, suspension and passenger loads
- Two-button wireless operation
- Wireless distance sensor, with option to use external Distance Measurement Instrument (DMI)
- Utilises GPS functionality on Android device
- Outputs in International Roughness Index (IRI), Bump Integrator or NAASRA counts
- Supports projects and pre-defined survey routes in KML format
- Multi-format reports available including KML and .CSV files

Components

- Interface module
- OBDII wireless distance sensor
- Wireless buttons
- Accelerometer and mounting brackets
- Android acquisition and processing app

Standards Compliance

ASTM E1926 - Standard Practice for Computing International Roughness Index of Roads from Longitudinal Profile Measurements.

