The Roughometer III is a cost-effective, easy to install, portable device that provides objective and repeatable roughness results on both sealed and unsealed roads.

Practical and easy to use, the Roughometer III provides a simple technique for road quality assessments. The unit now has the added advantage of an integrated GPS unit and the ability to collect over 8,000 miles of data.

The Roughometer III is a response-type roughness device, complying to World Bank Class 3 requirements. Unlike other devices in this class the Roughometer III eliminates the uncertainties associated with the vehicle, such as the vehicle’s suspension or passenger weight, by directly measuring the axle movement with a precision accelerometer. This means the Roughometer III does not need to be calibrated experimentally to produce true International Roughness Index (IRI) results.

Once a survey has been undertaken, the Roughometer III processing software enables the data to be formatted into custom graphs, tables and maps.

Applications
- Provides objective data for true evaluation of the roughness level of the road
- Objectively compares and analyzes which roads are in need of repair
- Monitors roughness deterioration trends
- Highly portable and vehicle independent for remote applications
- Utilize on surfaces and locations that cannot be surveyed by a laser profilometer
Features

■ Accurate and repeatable outputs regardless of vehicle type, suspension and passenger loads
■ Can be utilized on various surface types and conditions - sealed or unsealed, wet or dry
■ Axle-mounted inertial sensor used to determine road profile and roughness
■ Integrated GPS for location data with on-screen display of satellite tracking status
■ Outputs in International Roughness Index (IRI)
■ Can be installed in most passenger, trucks and light commercial vehicles
■ Fast and simple download of data, to laptop or computer, using USB connection
■ Multi-format reports available:
  - Tables
  - Graphs
  - GPS maps
  - CSV files

Components

■ Roughometer hand-held controller
■ Interface module
■ Inertial module and mounting brackets
■ Distance Measurement Instrument (DMI)
■ GPS antenna with magnetic base mount
■ Processing software

With over 25 years of experience in the development and operation of road survey equipment around the world, you can rely on ARRB systems to provide accurate, innovative quality data collecting systems enhancing our reputation as the trusted advisor in road management.