

Roughometer III

About ARRB:

ARRB Group Ltd (ARRB) provides research, consulting and information services to the road and transport industry. ARRB applies research outcomes to develop equipment that collects road and traffic information and software that assists with decision making across road networks. ARRB is the leading provider of road research and best practice workshops in Australia.

ARRB Group Ltd
ABN 68 004 620 651
www.arrb.com.au

MATERIALS, PAVEMENT & CONCRETE DESIGN & TESTING | TRANSPORT POLICY, OPERATIONS & ECONOMICS |
INFRASTRUCTURE ASSET MANAGEMENT | EQUIPMENT MANUFACTURE & DATA COLLECTION SERVICES |
SAFE SYSTEMS | ROAD SAFETY | TRAFFIC ENGINEERING | HEAVY VEHICLE TESTING & SIMULATION | PARKING |
LAND TRANSPORT RESOURCES & INFORMATION | KNOWLEDGE TRANSFER & CAPACITY BUILDING |

Head Office:

Australia, Victoria:
500 Burwood Highway
Vermont South VIC 3133
Australia
P: +61 3 9881 1555
F: +61 3 9887 8104
info@arrb.com.au

Regional Offices:

Western Australia:
191 Carr Place
Leederville WA 6007
Australia
P: +61 8 9227 3000
F: +61 8 9227 3030
arrb.wa@arrb.com.au

Queensland:
123 Sandgate Road
Albion QLD 4010
Australia
P: +61 7 3260 3500
F: +61 7 3862 4699
arrb.qld@arrb.com.au

South Australia:
121 King William Street
Adelaide SA 5000
Australia
P: +61 8 7200 2659
F: +61 8 8423 4500
arrb.sa@arrb.com.au

New South Wales:
2-14 Mountain St
Ultimo NSW 2007
Australia
P: +61 2 9282 4444
F: +61 2 9280 4430
arrb.nsw@arrb.com.au

China:
Floor 13, Zhen Xing Building
118 North Hu Bin Road
Xiamen PRC
P: +86 592 2135 552
F: +86 592 2136 663
www.arrb-china.com.cn

UAE:
Unit 101, Al Safa Tower
Sheikh Zayed Road
Dubai, UAE
P: +971 4332 8532
F: +971 4332 8584
www.arrb-me.com

Luxmoore Parking Consulting
Ground Floor, 12 Wellington
Parade
East Melbourne, VIC 3002
P: +61 3 9417 5277
F: +61 3 9416 2602



Roughometer III

collect accurate roughness data with integrated GPS

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

The Roughometer III is a response-type roughness device, complying to World Bank Class 3 requirements. However, 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 that the Roughometer III does not need to be calibrated experimentally to produce true International Roughness Index (IRI) results.

Practical and easy-to-use, the Roughometer III provides a simple technique for road quality assessment and now has the advantage of an integrated GPS unit and the ability to collect up to 13,000 km of data.

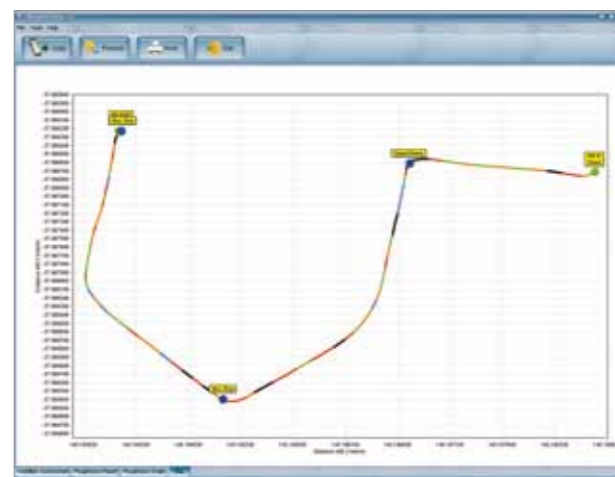
Once a survey has been undertaken, the Roughometer III processing software enables the data to be formatted into custom graphs, tables and maps.

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

Components

- Roughometer hand held controller
- Interface module
- Inertial module and mounting brackets
- Distance Measurement Instrument (DMI)
- GPS antenna with magnetic base mount
- Vehicle power cables & USB communications cable
- Roughometer processing software



Features

- Accurate and repeatable outputs regardless of vehicle type, suspension and passenger loads
- Axle-mounted inertial sensor (non-contact) 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) or NAASRA counts
- Can be installed into most common passenger and light commercial vehicles
- Fast and simple download of data, to laptop or computer, using the USB connection
- Multi-format reports available as detailed tables, graphs, GPS maps and CSV files, suitable for use in a spreadsheet

