

AVL



AVL Smart Mobile Solutions™ FOR RDE TESTING

Interactive applications for in-vehicle RDE road testing

THE CHALLENGE

The Real Driving Emissions (RDE) legislation is adding the road as a new environment for emission testing and certification. The conditions for emissions testing and certification have changed significantly; route requirements need to fulfill larger criteria, such as speed range or driver behavior. In addition, OEMs need to carry out lots of type-approval tests on the road to ensure RDE compliance.

An RDE compliant route must be identified to ensure all the test criteria and boundary conditions are satisfied. This task induces a lot of effort in terms of time spent on the road and on the number of tests conducted to ensure a compliant RDE test has been performed. The number of invalid tests due to violation of driving criteria should be minimized. The new regulations encourage engineers to adapt their testing methods and technologies to react fast to these RDE challenges.

THE AVL SOLUTION

With smart mobile solutions, the calibration engineer is able to easily generate a desired amount of RDE compliant routes by simply selecting a start and end point on the map. The trip profile can simply be extracted to the smartphone for driver guidance and assistance. An application in the vehicle provides online evaluation of the RDE criteria, for instance driven distance, test duration, dynamic behavior, trip share, average speed, and it can be visualised directly on the smartphone while driving. After that, an RDE cycle – or part of it – can be re-run if necessary, and the system will guide the driver to follow the desired speed and give instructions on when to shift.

THE ADDED VALUE

- No additional Hardware – Utilise existing vehicle infrastructure
- Plug and Play Installation – Software download with mobile connectivity
- Touch screen CONTROL – Improved driver safety

Find an RDE route and export it to your smartphone



Drive the RDE route and get live feedback



Re-run an RDE cycle with guidance assistance

FEATURES AND FUNCTIONS



PLUG AND PLAY

- Easily connect to the application software
- Select the necessary channels
- Press start
- Check criteria online



CONNECTIVITY

- Smartphone used as display device
- Storage of GPS information
- Ghost driver function with GPS



USABILITY

- Allows rapid interaction
- Touch screen control
- No training needed
- Mobile application for ease of use



SAFETY

- No need to check the laptop while driving
- Stay safe while doing your in-vehicle calibration
- Secure

FOR FURTHER INFORMATION PLEASE CONTACT:

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