

Measuring Mobility

Add value to your mobility solutions

NMI is the independent expert for testing, certification and training in the fields metrology and gaming. Manufacturers and end-users can rely on our knowledge, service and the worldwide recognition of NMI measurement reports and certificates.

With many years of experience, we are in the front line to stay on top of the latest developments in the mobility market. Our professional staff members participate in various national and international organisations, including OIML working groups. They have authoritative and highly specialized knowledge about applicable requirements and standards and are more than happy to share it with you.



NMI's outstanding international reputation for testing and certifying police enforcement measuring instruments, MOT measuring instruments, taxi meters and quality systems is widely spread.

But did you know that our services go much further than this? With an independent view on your specifications, we offer design and development support in different phases of your product development to avoid costly and time-consuming modifications at a later stage.

Our expertise is also applicable when issues like smart mobility, ANRP, tolling and a safe and healthy environment are involved. It's our specialty to test innovative measuring systems and to develop test plans in order to demonstrate that these systems meet the specified requirements. Even if no requirements have yet been defined, NMI's experts will provide you with an underpinned test report that demonstrates the accurate performance of any measuring instrument or system.

Enhancing road safety

Section control is a relatively new technique for checking vehicle speeds on public roads. Unlike conventional speed meters which measure the speed of a vehicle at one point, section control systems determine the average speed over a greater distance (at least 500 metres). Section control systems are required to comply with strict regulations. Testing against these regulations can be quite a challenge.

NMi tests all police measurement systems, including section control systems. The goal of section control is to enhance road safety. Section controls greatly reduce the number of speed violations. In recent years, the Dutch government introduced section control systems on a number of motorways, including the A2 (near Maarsssen), the A4 (between The Hague and Amsterdam), the A12 (between The Hague and Utrecht) and the A13 (between Rotterdam and The Hague). A number of mobile section control systems are also in use. These mobile systems allow for the average speed of a suspect vehicle to be measured from a police car following behind the vehicle.

Section control in a Ferrari

NMi has been involved from the beginning in the development of section control systems in the Netherlands. New technology has been applied in recent times for checking the speed of passing vehicles. To guarantee the reliability of a control system, NMi conducts detailed testing against the regulations. For example, the section control systems are subjected to external radiation (EMC tests) and extreme temperature variations in order to determine whether the systems can cope with such temperatures and whether they affect the measurement results. However, the systems have to be capable of accurate measurements up to 300 km/h. Confirming this in practice involves testing on a racing circuit with low-flying Ferraris!

Road and water

Following on from section controls on the road, systems are now being developed for measuring speed on water. NMi also conducts tests on other police measurement systems, such as breath analysers, motorbike roller test benches and speed meters for use in other countries. For further information, please visit: www.nmi.nl

Training at NMi

Would you like to know more about interpreting standards and accurate measurements? Or which factors can impact on measurement uncertainty? Our general training courses provide you with knowledge and insight of the applicable measurement principles and legislation. Work assignments enable you to put this knowledge into practice.

Highlighted: EMC tests - a preparatory course

All electronic devices are subject to a set of EMC requirements, whether they are measuring instruments for consumer usage (taxi meters, black boxes), enforcement equipment (speedmeters, tolling, breath analyzers) or measuring instruments and systems related to safety and environment (MOT, emission).



On completion of this training course you will be better prepared for the type of testing that your measuring instrument must undergo and for the certification requirements that apply during the metrological EMC testing. During the course, you will be apprised of all current and future EMC requirements. Taking these factors into account in the earliest stages of the design and development phase can reduce time and money and involve fewer retests in getting your product to market.

If you wish to receive more information about this particular training or about our diversified training programme (with courses to be followed online, at NMi or on location) please send an email to trainingen@nmi.nl or call +31 78 633 23 08.

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