



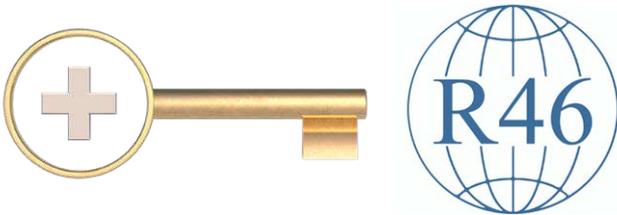
## Your active energy meter OIML R 46 tested at NMI

*In 2012, the International Organisation for Legal Metrology (OIML) has developed the Recommendation R 46, "Active electrical energy meters". NMI, the independent testing and certification institute, has been appointed as the first Issuing Authority for this new recommendation.*



## R 46: AN IMPORTANT MILESTONE

Sharing their knowledge in close cooperation, experts from the USA, Australia and Europe have been working together for years to achieve this milestone. They managed to prepare a document with requirements that would be universally accepted: R 46 is based on European EN 50470 standards, Australian Standards, IEC 62052 & 62053 standards and ANSI standards. With the publication of this set of documents in 2012, OIML has created a worldwide acceptance tool in a rapidly evolving smart meter market.



Since many years, NMI can test, examine and certify (smart) utility meters for compliance with EN standards and IEC standards, according to the specific requirements of our customers. A large number of manufacturers use our test reports in order to receive an MID approval for Europe or to get approvals worldwide. Now an extra possibility for global market access is added to our range of testing services: NMI offers full OIML R 46 testing for all types of active electrical energy meters.

## R 46 SAVES TIME AND MONEY

Having your electricity meter R 46 tested is a time- and cost-saving opportunity. One of the major advantages with this new document is that the R 46 bridges the requirements in many local markets, especially outside Europe (for instance in Asian Pacific regions and Latin America countries). An NMI test report in accordance with R 46 will therefore open doors more easily: because of the combination of all available OIML/IEC/EN standards, the most optimal acceptance package for your meter is created.

## TESTING AT NMI

At the moment, NMI is one of the few OIML authorities issuing Certificates of Conformity with respect to the R 46, as indicated on the OIML website ([www.oiml.org](http://www.oiml.org)). We offer a complete program for type testing with regard to the IEC 62052 & 62053 series in combination with the EN 50470 documents and the R 46, depending on the market for which the product is designed. But also individual stated tests can be performed separately, like the durability test conform par. 6.4.17 in accordance with IEC 62059-32-1 or the high order harmonics test conform par. 6.3.17 of OIML R 46. This creates an additional report besides the standard IEC/EN reports that enlarges your acceptance worldwide.

## WHY R 46 IS ALREADY IMPORTANT

OIML R 46 will be necessary in order to obtain official approval at national level in several Asian and Pacific countries. The document will also be used in Australia and in the near future is about to be implemented by several other countries as well. At the moment, cross referencing of the R 46 with the MID in Europe is already prepared by a group of WELMEC members from the Netherlands and Slovenia. NMI also participated in this group so as to create a high level of acceptance for MID approvals. As soon as the cross reference has been accepted by WELMEC Committee, the OIML R 46 Cross Reference Table will also be regarded as a normative document under the MID and can be used in obtaining a European approval.

NMI participates in various international working groups, such as WELMEC, OIML, IEC and CENELEC and various standards committees. We therefore know all about the latest developments in requirements and legislation. We can tell you which new requirements to be expected for the coming year, so that you can take them into account in the product design and put a future-proof product on the market.

## COMPLETE SERVICE PACKAGE

Rapid market access is vital to ensure good business deals. Thanks to our efficient test procedures, state-of-the-art test facilities and our experienced test engineers, we can achieve the shortest turnaround times for you. Are you working to meet a deadline? For electricity meters we offer a fast track option, reducing turnaround times from 6 weeks (standard NMI turnaround time) to just 3 weeks (in consultation). This has enabled many clients to meet deadlines for tenders.

Besides this advantage, NMI not only tests utility electrical energy meters, but has also many decades of experience in testing utility gas-, water- and heat meters. Since the smart meter principles apply to all these measuring instruments, our experts can advise you about optimizing their mutual interaction and communication. This knowledge can help Utilities during a smart meter roll out to decide which combination of smart meters will be most consistent.

It is also possible to conduct several additional tests, for example reactive power consumption, breaker tests, power line communication (PLC), ZigBee communication, clock accuracy and many others.

## MORE INFORMATION?

We are happy to answer all your questions. Please feel free to contact us at [nmi@nmi.nl](mailto:nmi@nmi.nl). On our website - [www.nmi.nl](http://www.nmi.nl) - you can find more information about our services.

