

# Stability test for kWh-meters

## Information-sheet about KEMA services for a stability test performed on a kWh-meter

There are several ways to evaluate the reliability of an energy meter. You might know that IEC provides a series of standards related to reliability / dependability testing or evaluation. These standards are:

- IEC 62059-11 -general concepts
- IEC 62059-21 -collection of meter dependability data from the field
- IEC 62059-31-1 -accelerated reliability testing
- IEC 62059-32-1 -Testing of the stability of metrological characteristics by applying elevated temperatures
- IEC 62059-41 -reliability prediction

This sheet will give you some information of the stability test according to IEC 62059-32-1.

### **IEC 62059-32-1**

IEC62059-32-1 provides a method to evaluate one important aspect of durability, the stability of metrology characteristics, by operating a test specimen at the upper limit of the specified operating ranges of temperature, voltage and current for a period of 1000 hours.

If the meter under test passes the test, this gives a reasonable level of confidence that the meter is free from serious design errors and material flaws that may prevent it from maintaining its specified accuracy for the period of use estimated by the manufacturer.

KEMA can test and certify energy meters according to the IEC62059-32-1 standard. After the test a report with the results and a certificate will be provided.

### ***If you are interested or you want more information, please contact:***

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