

## MID Annex H1

**Since 2006, in Europe new legislation on measuring instruments MID (Measuring Instruments Directive) is in force. It covers 10 categories of measuring instruments, and abolishes the previous legislation. MID adopts a modern regulatory approach, leaving much more room for technological innovation and more choice for manufacturers in conformity assessment procedures. It aligns EU legislation on international standards, in particular of the OIML and it covers the electronic revolution that has characterized measuring instruments since the 70-ies.**

### What is Annex H1?

Annex H1 looks a lot like the combination of annexes B and D of MID: it includes a quality system certification (serving a similar purpose as Annex D) and a design examination that is comparable to the type examination of Annex B. If a manufacturer is certified to work according Annex H1, he is allowed to do the testing himself, thus saving external costs.

A manufacturer must guarantee that all measuring instruments that he puts on the market meet the legal requirements. Annex H1 of MID is the conformity assessment procedure that allows the manufacturer to prove that his measuring instruments comply with the MID. The procedure consists of two parts:

### 1 Quality system certification

The manufacturer's quality system must be certified. The quality system includes the design process, the manufacture and final product inspection, and the testing of the measuring instrument.

NMI can certify your quality system by auditing. During the audit the following four elements will be taken into account:

- implementation of the ISO 9001 certified quality system: depending on the 'aliveness' of the quality system, the extent of the NMI audit will decrease
- design process: planning, in- and outputs, review, verification/validation and control of changes
- manufacture and final product inspection: incoming goods, production model versus technical design, packaging, integration of test in manufacture
- testing: facilities, traceability, measurement uncertainty, test engineers

When the quality system is certified, the manufacturer is allowed to verify for himself.

### Which measuring instruments?

The information in this flyer applies to:

- water meters
- gas meters & volume conversion devices
- electricity meters
- heat meters
- meters for liquids other than water
- automatic weighing instruments
- taximeters
- dimensional measuring instruments
- exhaust gas analysers

The flyer does not apply to material measurers and non-automatic weighing instruments.



## 2 Design examination

The manufacturer uses the certified quality system to develop new measuring instruments. For each measuring instrument that the manufacturer develops, the notified body that certified the quality system examines the design. This is effectuated on the basis of technical documentation and supporting evidence (for instance: test results) that the manufacturer makes up for each design. When the design meets the requirements, the notified body issues an EC design examination certificate to the manufacturer.

### Why NMI?

NMI is a notified body with over 15 years of experience with national and international directives (NAWI-directive amongst others). Our auditors are very experienced: for many years they have been auditing quality systems in Europe, Asia and the US and add value to your metrological audits as a sparring partner. They are experts on incorporating verification tests in the manufacturing process.

### NMI offers you choice:

1. NMI audits can be planned as part of or separate from an audit that already takes place. On your request, we can efficiently combine different audits, resulting in the shortest project lead times.
2. While performing the metrological certification, NMI can simultaneously certify your quality system according to ISO 9001.
3. According to your wishes, we can find the right expert:
  - for the design process: NMI type examination engineer
  - for manufacturing (including incorporation of tests): NMI lead auditor
  - for testing: NMI verification officer

### Trainings on MID

Metrology College is NMI's training department offering various trainings in the field of legal and industrial metrology. The trainings focus on acquiring knowledge and insights. Exercises will help you to practice the skills and test new insights in practice.

Metrology College offers open trainings on MID and tailor-made programs adjusted to your wishes. For further information, please contact Metrology College by e-mail [metrologycollege@nmi.nl](mailto:metrologycollege@nmi.nl) or phone +31 15 269 1777. Please find an overview of the open trainings on our website: [www.nmi.nl](http://www.nmi.nl), section Metrology College.

### About MID

This flyer covers Annex H1 of MID and is part of a series of flyers on MID and conformity assessment procedures.

Please contact our sales department at [certinsales@nmi.nl](mailto:certinsales@nmi.nl) for more information. These flyers are also available on our website: [www.nmi.nl](http://www.nmi.nl).



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Or would you like an appointment with one of our consultants?

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