

3rd international EMATEM seminar
on May 10th and 11th, 2005



Considerations of a manufacturer for the module choice for water- and heat meter

Walter Kluge

3rd international EMATEM seminar
on May 10th and 11th, 2005



Aim of the presentation

**To provide suggestions for a discussion
and
promote to form an opinion.**

3rd international EMATEM seminar
on May 10th and 11th, 2005



Modules for the choice for water- and heat meter

Module B

Type examination

Module D

QM-system for production, final product inspection and testing

Module F

Test the approved type as described in the EC-type examination certificate

Module H1

Full QM-System and design examination

Permitted
B+ F; B+ D; H1

3rd international EMATEM seminar
on May 10th and 11th, 2005

HYDROMETER

Everything understood !!



or ??

3rd international EMATEM seminar
on May 10th and 11th, 2005



Some criteria to the module choice

(= the conformity assessment procedure)

- Duration of type- and design examination
- Effort for examinations (design, type, production)
- Effort for construction and conservation of a new procedure
- Risk for the attainment of the “approval”
- Quality of the measuring instruments
- Nondisclosure of the product data
- Expectations of the customers

3rd international EMATEM seminar
on May 10th and 11th, 2005



Duration of type- and design examination

Assessment:

Caused by the norms (EN 14154, EN 1434, OIML) the duration will increase, by the MID never.

Questions:

- Which possibilities arise in the context of the temporal control?
- Will the designated bodies be able to work under pressure?
- Which rules are to be used for the design examination?

3rd international EMATEM seminar
on May 10th and 11th, 2005



Effort for examinations (design, type, production)

Assessment:

Caused by new norms (EN 14154, EN 1434, OIML) the duration will increase, by the MID never.

Questions:

- Are there general additional expenses for the conformity assessment in comparison with today?
- Which rules are to be used for the design examination?

3rd international EMATEM seminar
on May 10th and 11th, 2005



Effort for construction and conservation of a new procedure

Assessment:

Something new always causes additional expenses
(depending on module)

Questions:

- How will the cooperation with designated bodies appear?
- Which criteria's will be used for new audits?

3rd international EMATEM seminar
on May 10th and 11th, 2005



Risk for the attainment of the “approval”

Assessment:

- module B+ F: current
- module B+ D: a little higher
- module H1: essential higher

Questions:

- How big is the risk not to receive “conformity assessment” by reason of method faults?

3rd international EMATEM seminar
on May 10th and 11th, 2005



Quality of the measurement instruments

Assessment:

Good at the moment (e.g. PTB-approval, 100% control in the production)

Questions:

- Is it made sure that all designated bodies act after the same weighting of the specifications?
- How do supplementary national specifications have an effect?
- What is a **“full quality assurance”**?
- What is an **“authorized quality assurance system”**?
- How is the **“durability”** judged?

3rd international EMATEM seminar
on May 10th and 11th, 2005



Nondisclosure of the product data

Assessment:

Very good today (normally only one involved body), in the future not so good (circumstances permitting more involved bodies)

Questions:

- How can the nondisclosure interests of one involved company be guaranteed counting the variety of the involved bodies (e.g. subcontractor)?

3rd international EMATEM seminar
on May 10th and 11th, 2005



Expectations of the customers

Assessment:

Different, partial the same quality standard is expected, but also Q-standard is expected to decrease.

Questions:

- Is it interest for the customer to know how the conformity was reached and how the product is produced (e.g. 100% examination)?

3rd international EMATEM seminar
on May 10th and 11th, 2005



Assessment of the criteria to the module choice for water- and heat meter

| | B+ F | B+D | H1 |
|---|-------------|------------|-----------|
| Duration of type- and design examination | 0 | 0 | + |
| Effort for examinations (design, type, prod.) | 0 | 0 | + |
| Effort for construction and conservation of a new procedure | 0 | - | - - |
| Risk for the attainment of the “approval” | 0 | + | + |
| Quality of the measuring instruments | 0 | - | - - |
| Nondisclosure of the product data | 0/- | 0 | - |
| Expectations of the customers | 0 | - | - |
| <i>0 = today; + = better; - = worse;</i> | | | |

3rd international EMATEM seminar
on May 10th and 11th, 2005



More frequently asked questions

- How are certifications according to DIN ISO 9000:2000 and DIN ISO 17025 judged?
- Which additional national legal specifications are expected?
- How can the competence of a test centre be used?
- Which influence will the new accreditation law have?
- Acknowledges the designated body Y the audit from the designated body Z (e.g. for module D)?

3rd international EMATEM seminar on May 10th and 11th, 2005



Thank you for your attention