

Recent developments in WELMEC

June, 2021
Pavel Klenovsky, WELMEC Chair



... is your primary source in Europe for trusted advice on legal metrology issues.

MoU organisation 1990-2020

Legal entity WELMEC e.V. 2020

Non-profit organisation based in Braunschweig, Germany

New corporate identity (logo etc.)

New web site Jan 2021

38 Members

Membership in WELMEC is open to national legal metrology *authorities*

- of European Union and EFTA member states and
- of countries that are in transition to membership of the European Union or
- countries having implemented European Union legislation in metrology.

No distinction any more between full and associate members.

As a result of Brexit, the UK withdrew its membership in WELMEC on April 20, 2021.



Observers

EURAMET

EA

OIML

NoBoMet

UK ? (being considered)

Corresponding Organisations

Manufacturer federations (CECIP, CECOD, AQUA, ...)

...

Secretariat

Chair

Executive Board

WELMEC Committee

one representative per Member

Convenor

9 Working Groups

Weighing instruments

Market Surveillance

Prepackages

Software

Utility Meters Water/Heat

Utility Meters Gas/Electr

...

Nominated Executives

- ▶ *Chair*
- ▶ Pavel Klenovsky [CZ]

- ▶ *Vice-Chair*
- ▶ Marc Wouters [BE]

- ▶ *Executive Board*
 - Zijad Dzemic [BH]
 - Tuomo Valkeapää [FI]
 - Wilfried de Waal [NL]

Main products

Guides

- **Common interpretation of EU-legislation (MID / NAWID)**
- **Technical and non-technical**
- **To be endorsed by EUC WG on Measuring Instruments**
- **Available publicly free of charge and updated regularly**
- **Total 64 guides, 42 referenced by the EUC**

Normative documents

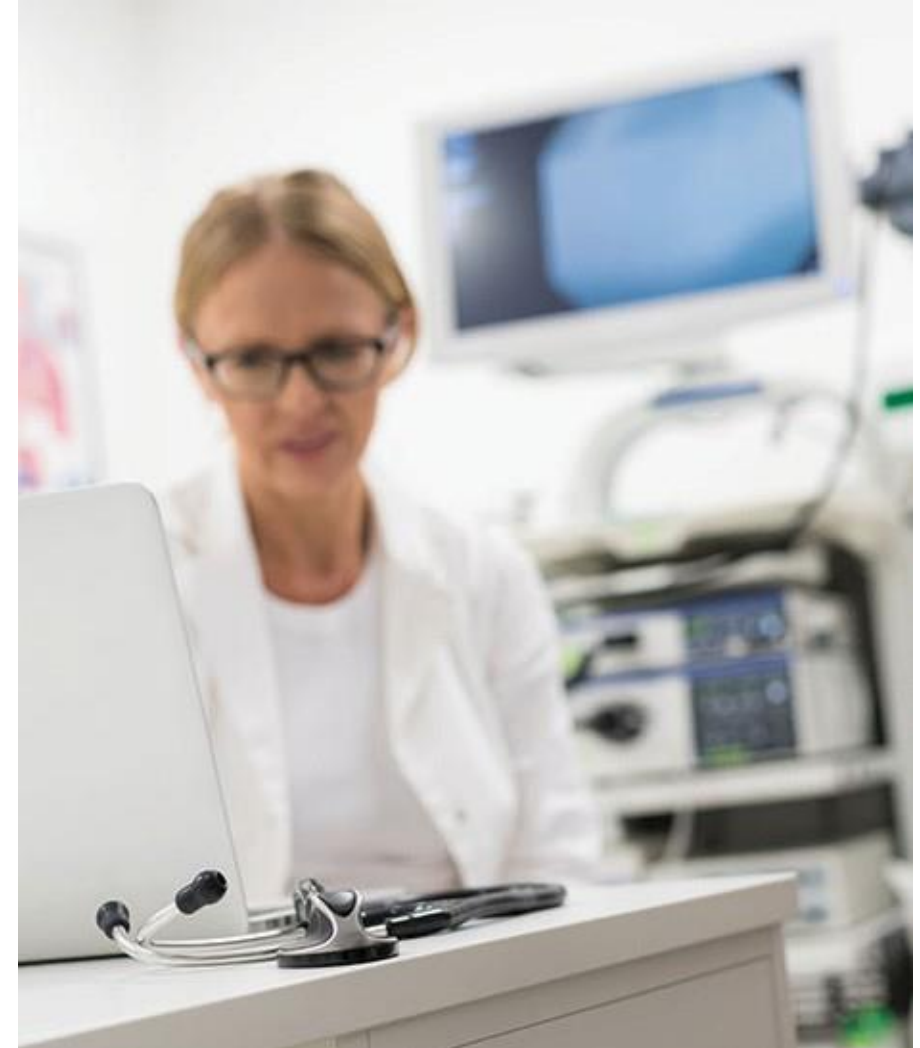
- OIML Recommendations can also be used in the absence of harmonized standards (worldwide harmonization)
- Published in the Official Journal of the EU
- Total 17

Corresponding tables

- Support the application of Normative documents
- Cross reference between MID and OIML recommendations

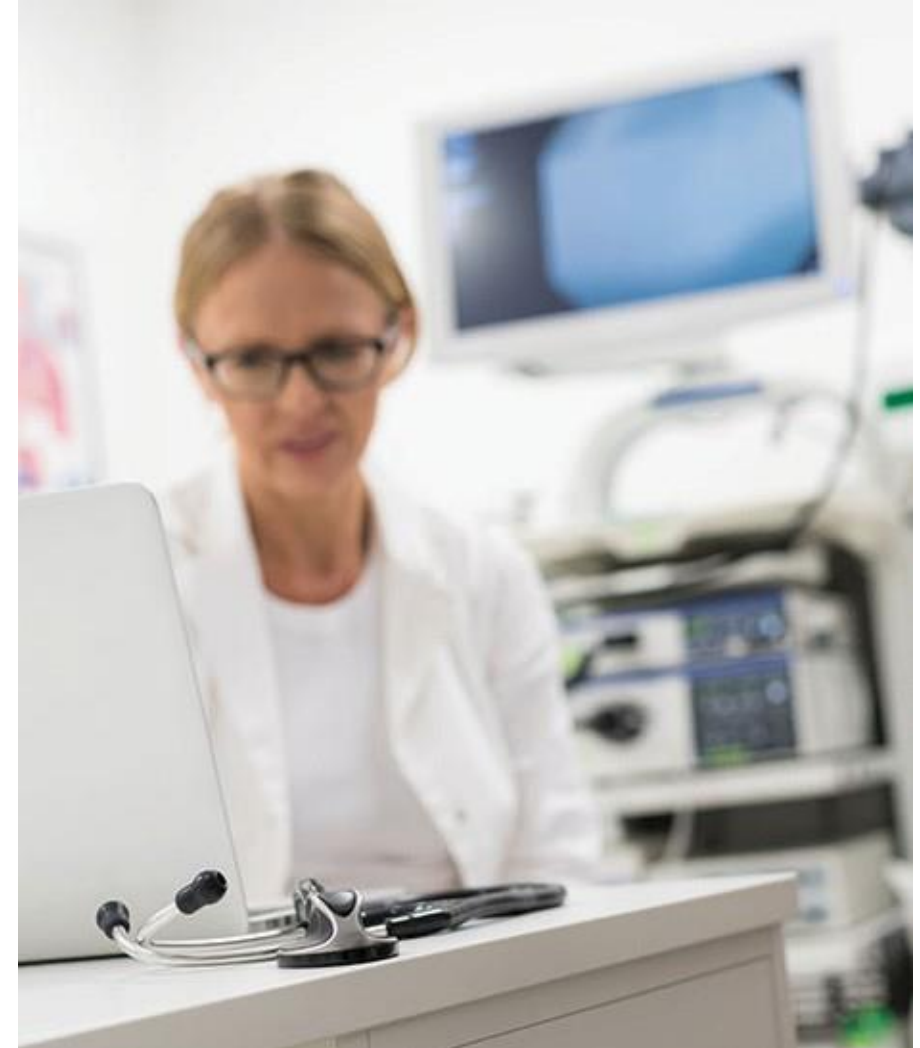
Highlights

- **permanent agenda points** for WG WP: proposals for research in EURAMET EPM, deficiencies in the metrology EU Directives (their revision urgent)
- new **web page**
- close ties to EURAMET
- **speeding up the guidance process**
- addressing continually the technical issues submitted by **stakeholders**
- **preparation of the new strategy**



Highlights

- **Alignment with EURAMET:**
 - a common „landing webpage“ – „European metrology“
 - common communication strategy
 - WELMEC represented on the Scientific Board of EURAMET (EMPIR, EPM)
 - Probably an enhanced participation in EPM



Technical work - highlights

New documents based on **WELMEC Guide 7.2:**

- Guide 7.3 Reference Architecture
- Guide 7.4 Exemplary Applications (inclusive **remote download of Legally Relevant SW - LRS**)
- Guide 7.X SW in NAWIs

Technical discussions in WGs:

- Clash between EU legislation on electricity (**smart meters**) and MID, art. 10.5 Annex I → **a revision of MID**
- **Watermeters:** issue with special equipment or additional tool in connection with Annex 1, article 7.6 MID, cooperation with CEN 92/WG 2
- **Fuel dispensers** – Self-Service Device (SSD) – split ownership



Technical issues – to be solved

- **electricity meters**: reactive power, coming to terms with 4-quadrant meters (calculation of total energy phase by phase), various forms of interference (now only 2-150 kHz)
- **DC electricity meters** (EV): a standard on metrological parameters not yet available
- **watermeters**: manipulation with errors within MPEs solved, influence of intermittent flow still studied
- impact of **digitalization** – legally controlled **MI**s as **IoT**

A revision of metrology directives is long overdue !



Thank you for your attention!

www.welmec.org