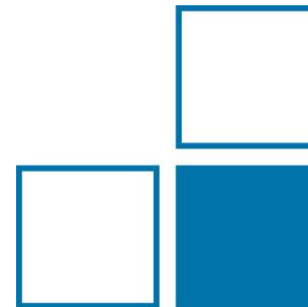


# The Revision of OIML R 75

Karl Jousten, PTB, Berlin

1. OIML
2. Why revision of R75?
3. The path towards the revision

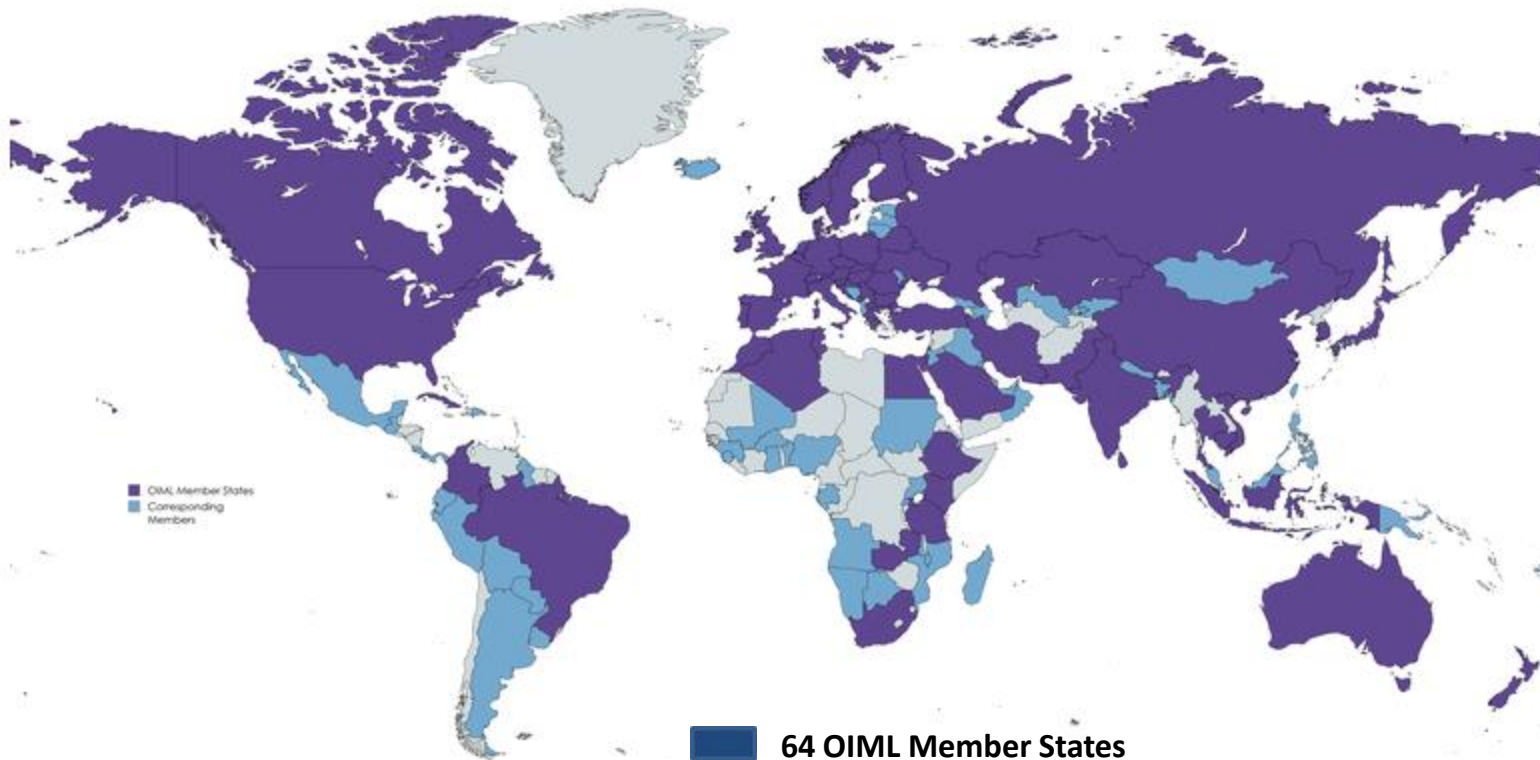


## **OIML = Organisation Internationale de Métrologie Légale**

**OIML** is an intergovernmental organisation promoting the global harmonisation of legal metrology procedures. It ensures the certification of measuring devices is compatible around the world. This facilitates trade in measuring devices and the products relying on them.

International standards setting organization under the terms of the WTO/TBT agreement.

Established in 1955, 23 Charter members



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[www.oiml.org](http://www.oiml.org)

## R75 Heat meters

Part 1: General requirements (2002)

Part 2: Type approval tests and initial verification tests (2002)

Part 3: Test Report Format (2006)

Responsible: TC 11 Instruments for measuring temperature and associated quantities

## TC 11 Instruments for measuring temperature and associated quantities

### BIML Contact

Mr Luis MUSSIO

### Secretariat

GERMANY  
Dr Karl JOUSTEN

### Participating Members (17)

AUSTRIA	GERMANY	P.R. CHINA	SWITZERLAND
CANADA	INDIA	POLAND	UNITED STATES
CZECH REPUBLIC	IRAN	RUSSIAN FEDERATION	
DENMARK	JAPAN	SERBIA	
FRANCE	KOREA (R.)	SLOVAKIA	

### Observer Members (17)

AUSTRALIA	HUNGARY	ROMANIA	UKRAINE
BRAZIL	INDONESIA	SLOVENIA	UNITED KINGDOM
CROATIA	NAMIBIA	SOUTH AFRICA	
CUBA	NETHERLANDS	SPAIN	
FINLAND	NORWAY	TANZANIA	

### Organisations in Liaison

**EHP** Euroheat & Power  
**IEC** International Electrotechnical Commission  
**ISO** International Organization for Standardization

## Some **arguments for a revision** of the OIML R75

- The metering relevant for the **climate** like heat and cooling meters should follow the **global action**
- Economic globalization should not be hindered by trade barriers caused by different legal requirements
- **Harmonize R75 with** the European Measuring Instruments Directive (**MID**) 2014/32/EU
- R75 from 2002 is **outdated** in some parts (2 examples):
  - 1) **Water-glycol mixtures** are not implemented. With view to the importance of solar applications, this should be added.
  - 2) New knowledges for testing with help of developed **flow disturbances** should be formulated in a new version of R 75.
- The **tests** required for the European market according to EN 1434:2022 should be included in the R75 (**Electro-magnetic compatibility** with view to networks and digitalization demand new tests. Requirements on the **measurement stabilities** claim enlarged tests for their predictions. Some basic tests are already implemented in the R 75, but the gap to EN1434 is too large.)

Already in 2006 the EU commission made a list of non-conformities between R75 and MID 2004!

## COMMISSION

Commission Communication in the framework of the implementation of Directive 2004/22/EC of the European Parliament and of the Council of 31 March 2004 on measuring instruments <sup>(1)</sup>

*(Publication of the references to normative documents drawn up by OIML and the list of the parts thereof corresponding to the essential requirements (in conformity with Article 16.1 of the Directive))*

(2006/C 269/01)

MI-004: Heat Meters

in relation to:

- OIML R75-1, edition 2002,
- OIML R75-2, edition 2002.

Essential requirement in MID (Annex I and MI-004)	OIML R75-1, edition 2002 (R 75-2, edition 2002 when mentioned)	Comment
Annex I		
1.1	4.4 to 4.9, 5, 9, 1.3	
1.2	4.4, 4.8 R 75-2 6.12	
1.3	11, 12	Partial coverage of the essential requirement
1.3.1	10, 11	
1.3.2		Not covered by OIML

In 2018 WELMEC (WG13) made another list of non-conformities between R75 and MID 2014/32/EU!

**CT-004, 2018**  
Issue 2, October 2018

Old reference:  
WELMEC 8.14  
Issue 1, 2006

# WELMEC

European Cooperation in Legal Metrology

## Measuring Instruments Directive 2014/32/EU Thermal Energy Meters Corresponding Tables OIML R 75:2002

CT-004, 2018 Measuring Instruments Directive 2014/32/EU Thermal Energy Meters – OIML R 75, 2002

Directive 2014/32/EU	OIML Recommendation OIML R75-1; -2 (2002)	Comments	Conclusion
7.4	Part 1 no 6.3.7 Part 2, no. 6.4.1.3	No <u>specific</u> demands for the insensitivity under small fluctuations of the measurand, but hints for lowest significance of the display in part 1 no 6.3.7 and for fast response meters, part 2, no. 6.4.1.3	not covered

## Steps taken so far

2019 OIML TC 11 has no convenor

**2019-09** New Convenor: Karl Jousten, PTB

**2022-01** PTB decides to initiate R75 revision

**2022-03** OIML-TC 11: Survey on revision of R75

**2022-05** Result of survey: 5/6 in favour (17 members), 2/2 in favour (16 observers)

**2022-07** Proposal for new project submitted to CIML

**2022-10** Approved under resolution CIML/2022/24

**2023-02** Too few project members ( $\geq 6$ ). Delay: Sick leave Luis Mussio

**2023-05** Request for liaison CEN (TC 176) - OIML (TC 11)

**2023-08** Liaison between CEN (TC 176) - OIML (TC 11) formally established (S. Baack contact person)



## Steps taken so far

- 2023-09** US changed status to member and is 6th project member, meanwhile 9 (2024) Austria, Canada, Czech Republic, France, Germany, India, Japan, Russia and USA
- 2023-10** R75: Word file for editing revision not available. Conversion by PTB by 2023/11.
- 2023-11** Decision open how CEN TC 176 and OIML TC 11 collaborate. 2 Options: joint project, or an OIML project with CEN participation (preferred by me).
- 2024-02** Meeting of CEN TC 176 WG2. No decision on kind of collaboration and resistance of TC 176 WG 2 against copying parts of EN 1434. After the meeting, intense discussions among Bledar Bequiri, Moraya Awosola, and KJ how to proceed (Collaboration with ISO TC30, CEN and OIML for ISO 4064 and OIML R49, water meter, was no problem).  
Decision: Bequiri will check with the CCMC (CEN) that no copyright issues will arise.

## My email to OIML TC-11 on 2024-07-16

Dear OIML TC-11 members,

again it is time to inform you about the status of our project to revise R75 (Heat Meters):

The revision of R75 should be done in such a way that it is consistent with the European standard EN 1434 series. This means that OIML TC11 has to cooperate with CEN TC 176. The two organisations, OIML and CEN, have a liaison together. Under this liaison, two kinds of projects, a "joint project" or a "OIML project with CEN participation", are possible. This question was put on the agenda of a CEN TC 176 WG2 meeting in February 2024. At this meeting and as mentioned above, several experts recommended to update the OIML R75 according to the newest versions of the relevant parts of EN1434. This means that anything else but copy and paste would be an artificial language exercise. So, the owner of EN1434, the CEN, had to be asked to allow to adopt the content of EN1434 elsewhere. There was a good example in the past with R49 that CEN allowed to do this. After that meeting, the manager of CEN TC 176 has asked the CEN management, but we have no answer yet. He is pursuing this further on. When CEN gives allowance, the option "OIML project with CEN participation" seems the better option.

I am absolutely not happy about this sluggish progress! Karl Jousten

## Steps taken so far

**2024-09** Reply from CCMC: *"OIML and CEN currently lack a cooperation agreement or Memorandum of Understanding (MoU) for the joint production of deliverables, unlike the established collaborations between CEN/ISO or CLC/IEC. The process of creating standards involves copyright requirements, with each party responsible for the development of specific sections. To protect this relationship, it is essential to establish a legal framework agreement."*

## Summary



is quite fast ...



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