SPCR 173

Certification rules for
Type examination in accordance with
International Organization of Legal Metrology (OIML) requirements
Introduction

Product certification is an attestation by an independent third party that a product meets the requirements of a standard or other form of specification. Certifications through RISE are performed by a dedicated department, RISE Certification. Certification of products at RISE is conducted in accordance with EN ISO/IEC 17065. The tests used for certification are carried out in accordance with EN ISO/IEC 17025.

These certification rules are based on current regulations and standards but may be revised in the future, such as to adapt to international standards. Revision may also be considered if new regulations and standards are introduced or as a result of experience from the application of these certification rules.

Borås, February 2023

RISE Research Institutes of Sweden AB
Certification

[Signature]
Martin Tillander
Director, RISE Certification

Postal address
PO Box 857
SE-501 15 BORÅS

Tel. +46 10 516 50 00
Email: info@ri.se
Website: www.ri.se
# Table of Contents

1. Introduction
2. Scope
   2.1 The scope of the certificate
3. The certification process
   3.1 Application
      3.1.1 Technical documentation
   3.2 Initial review of the application
   3.3 Test samples
   3.4 Evaluation
   3.5 Review and decision
   3.6 Certificate
   3.7 Validity
   3.8 Changes to certified product
4. Requirements
   4.1 Product requirements
   4.2 Documentation requirements
   4.3 Labelling requirements
5. General terms and conditions
6. References
7. History
1 Introduction

This document contains the rules and procedures of conformity assessment applied by RISE Research Institutes of Sweden AB (RISE), when acting as an International Organization of Legal Metrology (OIML) Issuing Authority.

Evaluation and testing is based on the appointed OIML requirements.

Valid type examination certificates are displayed on the OIML’s website.

2 Scope

2.1 The scope of the certificate

A manufacturer can receive a type examination certificate according to OIML-Certification scheme (OIML-CS) for water meters, weighing instruments, dynamic measuring systems for liquids other than water, taximeters and automatic level gauges after performing necessary actions described in this certification rule.

3 The certification process

3.1 Application

Application for type examination certificate must be made in writing and accompanied by technical documentation (3.1.1).

3.1.1 Technical documentation

Technical documentation should describe the design, manufacture and intended use of the product. This means that it should contain at least:

- The product name or other identification
- Drawings and specifications
- List of all materials and components.
- Test reports, if tests already conducted (see also under 4.1).
- Installation and operating instructions (see also under 4.2).
- Proposed labelling (see also under 4.3).

All documents, including drawings, product descriptions, assembly instructions, etc., must be labelled with their document name or number and date.
3.2 Initial review of the application

During the initial review of the application, RISE will ensure that these certification rules are applicable and that the content of the application is satisfactory. If anything is unclear or missing, RISE will clarify these issues with the client before the certification process can continue. The review may lead to RISE declining the assignment, in which case the applicant will be informed of the reason why.

If RISE is able to take on the assignment, the applicant will receive a confirmation that the application has been accepted. This confirmation is the start of the certification agreement between the parties.

Should it be necessary to engage subcontractors for some or all of the assessment, RISE will inform the applicant. The applicant may object to the selected subcontractor.

3.3 Test samples

Test samples must be supplied by the applicant as required. Either the applicant submits these samples or RISE or by RISE’s supplier selects them.

3.4 Evaluation

The evaluation process checks whether the product meets the requirements specified in sections 4, 5 and 6.

The evaluation process performs examinations to the extent specified by the requirement specification. In some cases, previous test results may be used for the evaluation. Requirements for these tests include that they have been carried out by an accredited testing laboratory or by a Test laboratory that is registered in the OIML-CS.

In cases where the product and/or the documentation shows deficiencies, i.e., does not meet the requirements, the evaluation can be cancelled.

The results of the evaluation are summarised and submitted in a OIML Type evaluation report for review and decision.

3.5 Review and decision

The evaluation will be reviewed, and if approved, the process will proceed to determining a decision about certification. A certificate is issued once the decision has been made.

3.6 Certificate

The type examination certificate is issued to the applicant and its validity is based on continuous compliance with the requirements.
3.7 **Validity**
The certificate has no validity time stated.
In order for a type examination certificate to retain validity the certified product(s) must fulfill the requirements of the certificate and the applied standards and specifications. If an applied standard or specification is withdrawn or superseded this can also affect the validity.

3.8 **Changes to certified product**
Please note that no changes may be made to the certified product without these being assessed and approved by RISE. For this reason, the manufacturer must notify RISE of any changes planned for the certified product. Attach a description of the changes and a supplement to the technical file to the notification. RISE will determine the necessary steps for ensuring that the certificate can continue to be valid after the changes have been made. The assessment may necessitate further tests. In that case, the manufacturer will be informed and a price for these tests will given. If the change does not affect the validity of the certificate, the certificate will be revised with the new information.

4 **Requirements**

4.1 **Product requirements**
Applicable OIML requirements are used.

4.2 **Documentation requirements**
Documentation according to applied OIML requirement

4.3 **Labelling requirements**
Labelling according to applied OIML requirement

5 **General terms and conditions**
Provided in the RISE document *General certification rules for certification of products CR000*. 
## 6 References

<table>
<thead>
<tr>
<th>Reference</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SS-EN ISO/IEC 17065:2012</td>
<td>Conformity assessment - Requirements for bodies certifying products, processes and services</td>
</tr>
<tr>
<td>SS-EN ISO/IEC 17025:2018</td>
<td>General requirements for the competence of testing and calibration laboratories</td>
</tr>
<tr>
<td>OIML B18:2019</td>
<td>Framework for the OIML Certification System (OIML-CS)</td>
</tr>
<tr>
<td>OIML R21:2007</td>
<td>Taximeters – Metrological and technical requirements, test procedures and test report format</td>
</tr>
<tr>
<td>OIML R51-1:2006</td>
<td>Automatic catchweighing instruments</td>
</tr>
<tr>
<td>OIML R51-1:2010</td>
<td></td>
</tr>
<tr>
<td>OIML R51-2:2006</td>
<td></td>
</tr>
<tr>
<td>OIML R60:2017</td>
<td>Metrological regulation for load cells</td>
</tr>
<tr>
<td>OIML R60:2021</td>
<td></td>
</tr>
<tr>
<td>OIML R61-1:2004</td>
<td>Automatic gravimetric filling instruments</td>
</tr>
<tr>
<td>OIML R61-2:2004</td>
<td></td>
</tr>
<tr>
<td>OIML R76-1:2006</td>
<td>Non-automatic weighing instruments</td>
</tr>
<tr>
<td>OIML R76-2:2007</td>
<td></td>
</tr>
<tr>
<td>OIML R85-1:2008</td>
<td>Automatic level gauges for measuring the level of liquid in stationary storage tanks</td>
</tr>
<tr>
<td>OIML R85-2:2008</td>
<td></td>
</tr>
<tr>
<td>OIML R85-3:2008</td>
<td></td>
</tr>
<tr>
<td>OIML R117-1:2007</td>
<td>Dynamic measuring systems for liquids other than water</td>
</tr>
<tr>
<td>OIML R117-2:2014</td>
<td></td>
</tr>
<tr>
<td>OIML R117-3:2014</td>
<td></td>
</tr>
<tr>
<td>CR000</td>
<td>General certification rules for certification of products</td>
</tr>
</tbody>
</table>
7 History

2008 RISE (previously SP Technical Research Institute of Sweden) listed as an Issuing authority for OIML-CS.

2015 Added requirements for R117-1, -2 and -3.

2017-12-29 SPCR 173 (This document) renewed. New layout and change of name from SP to RISE.

2019-03-26 Editorial changes.