## Categories under the OIML Certificate System and MAA

### Length and speed

#### Full instruments

**Taximeters**

*Certificate System :

<table>
<thead>
<tr>
<th>Certificate</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>R 21 - 2007</td>
<td>Taximeters. Metrological and technical requirements, test procedures and test report format</td>
</tr>
</tbody>
</table>

**Multi-dimensional measuring instruments**

*Certificate System :

<table>
<thead>
<tr>
<th>Certificate</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>R 129 - 2000</td>
<td>Multi-dimensional measuring instruments</td>
</tr>
</tbody>
</table>

**Measurement of area of leathers**

*Certificate System :

<table>
<thead>
<tr>
<th>Certificate</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>R 136 - 1 - 2004</td>
<td>Instruments for measuring the areas of leathers</td>
</tr>
<tr>
<td>R 136 - 2 - 2006</td>
<td>Instruments for measuring the areas of leathers. Part 2: Test Report Format</td>
</tr>
</tbody>
</table>

### Static liquid measurement

#### Full instruments

**Automatic level gauges for fixed storage tanks**

*Certificate System :

<table>
<thead>
<tr>
<th>Certificate</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>R 85 - 1 &amp; 2 - 2008</td>
<td>Automatic level gauges for measuring the level of liquid in stationary storage tanks. Part 1: Metrological and technical requirements. Part 2: Metrological control and tests</td>
</tr>
<tr>
<td>R 85 - 3 - 2008</td>
<td>Automatic level gauges for measuring the level of liquid in stationary storage tanks. Part 3: Report Format for type evaluation</td>
</tr>
</tbody>
</table>

### Dynamic liquid measurement

#### Full instruments

**Water meters**

*Certificate System :

<table>
<thead>
<tr>
<th>Certificate</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>R 49 - 1 - 2003</td>
<td>Water meters intended for the metering of cold potable water. Part 1: Metrological and technical requirements</td>
</tr>
<tr>
<td>R 49 - 2 - 2004</td>
<td>Water meters intended for the metering of cold potable water. Part 2: Test methods</td>
</tr>
<tr>
<td>R 49 - 3 - 2004</td>
<td>Water meters intended for the metering of cold potable water. Part 3: Test report format</td>
</tr>
</tbody>
</table>

*Certificate System and MAA :

<table>
<thead>
<tr>
<th>Certificate</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>R 49 - 1 - 2006</td>
<td>Water meters intended for the metering of cold potable water and hot water. Part 1: Metrological and technical requirements</td>
</tr>
<tr>
<td>R 49 - 2 - 2006</td>
<td>Water meters intended for the metering of cold potable water and hot water. Part 2: Test methods</td>
</tr>
<tr>
<td>R 49 - 3 - 2006</td>
<td>Water meters intended for the metering of cold potable water and hot water. Part 3: Test report format</td>
</tr>
</tbody>
</table>
Fuel dispensers for motor vehicles (R 117 + R 118)

Certificate System:
- R 117 - 1995: Measuring systems for liquids other than water

Measuring systems for cryogenic liquids

Certificate System:
- R 81 - 1998: Dynamic measuring devices and systems for cryogenic liquids
- R 81 - D - 2006: Dynamic measuring devices and systems for cryogenic liquids - Annex D: Test report format

Direct mass flow measuring systems

Certificate System:
- R 105 - 1993: Direct mass flow measuring systems for quantities of liquids (including Annexes A and B)
- R 105 - C - 1995: Direct mass flow measuring systems for quantities of liquids - Annex C: Test report format

Gas measurement

Full instruments

Diaphragm gas meters

Certificate System:
- R 31 - 1995: Diaphragm gas meters

Weighing instruments

Full instruments

Load cells

Certificate System and MAA:
- R 60 - 2000: Metrological regulation for load cells

Non automatic weighing instruments

Certificate System and MAA:
- R 76 - 1 - 2006: Non-automatic weighing instruments. Part 1: Metrological and technical requirements - Tests
Continuous totalizing automatic weighing instruments

Certificate System:

Automatic rail weighbridges

Certificate System:

Discontinuous totalizing automatic weighing instruments

Certificate System:

Automatic catchweighing instruments

Certificate System:

Automatic gravimetric filling instruments

Certificate System:

In motion road weighing instruments

Certificate System:

Modules

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Indicators for non automatic weighing instruments

Certificate System:
R 98 - 1991: High-precision line measures of length

Certificate System and MAA:
R 76 - 1 - 2006: Non-automatic weighing instruments. Part 1: Metrological and technical requirements - Tests

Load receptors for non automatic weighing instruments

Certificate System and MAA:
R 76 - 1 - 2006: Non-automatic weighing instruments. Part 1: Metrological and technical requirements - Tests

Printing devices for non automatic weighing instruments

Certificate System and MAA:
R 76 - 1 - 2006: Non-automatic weighing instruments. Part 1: Metrological and technical requirements - Tests

Point of Sales devices for non automatic weighing instruments

Certificate System and MAA:
R 76 - 1 - 2006: Non-automatic weighing instruments. Part 1: Metrological and technical requirements - Tests

Environment

Full instruments

Exhaust gas analysers

Certificate System:

Gas chromatographs for measurement of pesticides

Certificate System:
R 82 - 2006: Gas chromatographic systems for measuring the pollution from pesticides and other toxic substances

Portable gas chromatographs

Certificate System:
R 113 - 1994: Portable gas chromatographs for field measurements of hazardous chemical pollutants

High performance liquid chromatographs

Certificate System:
R 112 - 1994: High performance liquid chromatographs for measurement of pesticides and other toxic substances
### Gas chromatographs / Mass spectrometers

**Certificate System:**
- R 83 - 2006: Gas chromatograph/mass spectrometer systems for the analysis of organic pollutants in water

### Plasma atomic emission spectrometers

**Certificate System:**
- R 116 - 2006: Inductively coupled plasma atomic emission spectrometers for the measurement of metal pollutants in water

### X-ray fluorescence spectrometers

**Certificate System:**
- R 123 - 1997: Portable and transportable X-ray fluorescence spectrometers for field measurement of hazardous elemental pollutants

### Instruments for the measurement of effluents in the atmosphere

**Certificate System:**
- R 143 - 2009: Instruments for the continuous measurement of SO2 in stationary source emissions

### Medical instruments

#### Full instruments

##### Clinical electrical thermometers with maximum device

**Certificate System:**
- R 115 - 1995: Clinical electrical thermometers with maximum device

##### Clinical electrical thermometers for continuous measurement

**Certificate System:**
- R 114 - 1995: Clinical electrical thermometers for continuous measurement

##### Non-invasive mechanical sphygmomanometers

**Certificate System:**
- R 16 - 1 - 2002: Mechanical non-invasive sphygmomanometers

##### Non-invasive automated sphygmomanometers

**Certificate System:**
- R 16 - 2 - 2002: Non-invasive automated sphygmomanometers

##### Focimeters

**Certificate System:**
- R 93 - 1999: Focimeters

**Certificate System:**
- R 93 - 1999: Focimeters

##### Pure tone audiometers

**Certificate System:**
- R 104 - 1993: Pure-tone audiometers (including Annexes A to E)
Equipment for speech audiometry

Certificate System:
- R 122 - 1996: Equipment for speech audiometry
- R 122 - C - 1999: Equipment for speech audiometry - Annex C: Test report format

Ergometers for foot crank work

Certificate System:
- R 128 - 2000: Ergometers for foot crank work

Spectrophotometers

Certificate System:
- R 135 - 2004: Spectrophotometers for medical laboratories

Acoustics and vibrations

Full instruments

Sound level meters

Certificate System:
- R 58 - 1998: Sound level meters

Integrating-averaging sound level meters

Certificate System:
- R 88 - 1998: Integrating-averaging sound level meters

Sound calibrators

Certificate System:
- R 102 - 1992: Sound calibrators (including Annex A)

Octave-band and one-third-octave-band filters

Certificate System:
- R 130 - 2001: Octave-band and one-third-octave-band filters

Ionizing radiations

Full instruments

Radiochromic film dosimetry system

Certificate System:
- R 127 - 1999: Radiochromic film dosimetry system for ionizing radiation processing of materials and products

Polymethylmethacrylate dosimetry system

Certificate System:
- R 131 - 2001: Polymethylmethacrylate (PMMA) dosimetry systems for ionizing radiation processing of materials and products
Alanine EPR dosimetry system

**Certificate System:**
- R 132 - 2001: Alanine EPR dosimetry systems for ionizing radiation processing of materials and products

Physico-chemical measurements

**Full instruments**

Evidential breath analysers

**Certificate System:**
- R 126 - 1998: Evidential breath analyzers

Pressure

**Full instruments**

Pressure gauges with elastic sensing element

**Certificate System:**
- R 109 - 1993: Pressure gauges and vacuum gauges with elastic sensing elements (standard instruments)

Vacuum gauges with elastic sensing element

**Certificate System:**
- R 109 - 1993: Pressure gauges and vacuum gauges with elastic sensing elements (standard instruments)

Pressure-vacuum gauges with elastic sensing element

**Certificate System:**
- R 109 - 1993: Pressure gauges and vacuum gauges with elastic sensing elements (standard instruments)

Temperature, thermal energy

**Full instruments**

Liquid-in-glass thermometers

**Certificate System:**
- R 133 - 2002: Liquid-in-glass thermometers

Platinum, copper and nickel resistance thermometers

**Certificate System:**
- R 84 - 2003: Platinum, copper, and nickel resistance thermometers (for industrial and commercial use)

Heat meters

**Certificate System:**
- R 75 - 2 - 2002: Heat meters. Part 2: Type approval tests
Testing of materials

Full instruments

Force measuring systems of testing machines

Certificate System:

R 65 - 2006: Force measuring system of uniaxial material testing machines