

Categories under the OIML Certificate System and MAA

Length and speed

Full instruments

High precision line measures of length

Certificate System :

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

Taximeters

Certificate System :

R 21 - 2007 : Taximeters. Metrological and technical requirements, test procedures and test report format

Multi-dimensional measuring instruments

Certificate System :

R 129 - 2000 : Multi-dimensional measuring instruments

Measurement of area of leathers

Certificate System :

R 136 - 1 - 2004 : Instruments for measuring the areas of leathers

R 136 - 2 - 2006 : Instruments for measuring the areas of leathers. Part 2: Test Report Format

Static liquid measurement

Full instruments

Automatic level gauges for fixed storage tanks

Certificate System :

R 85 - 1&2 - 2008 : 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

R 85 - 3 - 2008 : Automatic level gauges for measuring the level of liquid in stationary storage tanks. Part 3: Report Format for type evaluation

Dynamic liquid measurement

Full instruments

Water meters

Certificate System :

R 49 - 1 - 2003 : Water meters intended for the metering of cold potable water. Part 1: Metrological and technical requirements

R 49 - 2 - 2004 : Water meters intended for the metering of cold potable water. Part 2: Test methods

R 49 - 3 - 2004 : Water meters intended for the metering of cold potable water. Part 3: Test report format

Certificate System and MAA :

R 49 - 1 - 2006 : Water meters intended for the metering of cold potable water and hot water. Part 1: Metrological and technical requirements

R 49 - 2 - 2006 : Water meters intended for the metering of cold potable water and hot water. Part 2: Test methods

R 49 - 3 - 2006 : Water meters intended for the metering of cold potable water and hot water. Part 3: Test report format

Fuel dispensers for motor vehicles (R 117 + R 118)

Certificate System :

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

R 118 - 1995 : Testing procedures and test report format for pattern examination of fuel dispensers for motor vehicles

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 - 1992 : Nonautomatic weighing instruments. Part 1 : Metrological and technical requirements - Tests (integrate Amendment No. 1 of 1994)

R 76 - 2 - 1993 : Nonautomatic weighing instruments. Part 2 : Pattern evaluation report (integrates Amendment No. 1 of 1995)

Certificate System and MAA :

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

R 76 - 2 - 2007 : Non-automatic weighing instruments. Part 2: Test report format

Continuous totalizing automatic weighing instruments

Certificate System :

R 50 - 1 - 1997 : Continuous totalizing automatic weighing instruments (belt weighers). Part 1: Metrological and technical requirements - Tests

R 50 - 2 - 1997 : Continuous totalizing automatic weighing instruments (belt weighers). Part 2 : Test report format

Automatic rail weighbridges

Certificate System :

R 106 - 1 - 1997 : Automatic rail-weighbridges. Part 1 : Metrological and technical requirements - Tests

R 106 - 2 - 1997 : Automatic rail-weighbridges. Part 2 : Test report format

Discontinuous totalizing automatic weighing instruments

Certificate System :

R 107 - 1 - 1997 : Discontinuous totalizing automatic weighing instruments (totalizing hopper weighers). Part 1: Metrological and technical requirements - Tests

R 107 - 2 - 1997 : Discontinuous totalizing automatic weighing instruments (totalizing hopper weighers). Part 2: Test report format

Certificate System :

R 107 - 1 - 2007 : Discontinuous totalizing automatic weighing instruments (totalizing hopper weighers). Part 1: Metrological and technical requirements - Tests

R 107 - 2 - 2007 : Discontinuous totalizing automatic weighing instruments (totalizing hopper weighers). Part 2: Test report format

Automatic catchweighing instruments

Certificate System :

R 51 - 1 - 1996 : Automatic catchweighing instruments. Part 1: Metrological and technical requirements - Tests

R 51 - 2 - 1996 : Automatic catchweighing instruments. Part 2: Test report format

Certificate System :

R 51 - 1 - 2006 : Automatic catchweighing instruments. Part 1: Metrological and technical requirements - Tests

R 51 - 2 - 2006 : Automatic catchweighing instruments. Part 2: Test report format

Automatic gravimetric filling instruments

Certificate System :

R 61 - 1 - 2004 : Automatic gravimetric filling instruments. Part 1 : Metrological and technical requirements - Tests

R 61 - 2 - 2004 : Automatic gravimetric filling instruments. Part 2: Test report format

In motion road weighing instruments

Certificate System :

R 134 - 1 - 2003 : Automatic instruments for weighing road vehicles in motion. Total vehicle weighing

R 134 - 2 - 2004 : Automatic instruments for weighing road vehicles in motion. Total vehicle weighing. Part 2: Test Report Format

Certificate System :

- R 134 - 1 - 2006 : Automatic instruments for weighing road vehicles in motion and measuring axle loads. Part 1: Metrological and technical requirements – Tests
- R 134 - 2 - 2009 : Automatic instruments for weighing road vehicles in motion and measuring axle loads. Part 2: Test report format
-

Modules

Indicators for non automatic weighing instruments

Certificate System and MAA :

- R 76 - 1 - 2006 : Non-automatic weighing instruments. Part 1: Metrological and technical requirements - Tests
- R 76 - 2 - 2007 : Non-automatic weighing instruments. Part 2: Test report format
-

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
- R 76 - 2 - 2007 : Non-automatic weighing instruments. Part 2: Test report format
-

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
- R 76 - 2 - 2007 : Non-automatic weighing instruments. Part 2: Test report format
-

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
- R 76 - 2 - 2007 : Non-automatic weighing instruments. Part 2: Test report format
-

Environment

Full instruments

Exhaust gas analysers

Certificate System :

- R 99 - 1&2 - 2008 : Instruments for measuring vehicle exhaust emissions. Part 1: Metrological and technical requirements. Part 2: Metrological controls and performance tests
- R 99 - 3 - 2008 : Instruments for measuring vehicle exhaust emissions. Part 3: Report Format
-

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

Pure tone audiometers

Certificate System :

- R 104 - 1993 : Pure-tone audiometers (including Annexes A to E)
 - R 104 - F - 1997 : Pure-tone audiometers - Annex F: Test report format
-

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)
 - R 102 - B&C - 1995 : Sound calibrators - Annexes B and C: Test methods for pattern evaluation and test report format
-

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 - 1 - 2002 : Heat meters. Part 1: General requirements
 - R 75 - 2 - 2002 : Heat meters. Part 2: Type approval tests
 - R 75 - 3 - 2006 : Heat meters. Part 3: Test Report Format
-

Testing of materials

Full instruments

Force measuring systems of testing machines

Certificate System :

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