

# Categories under the OIML Certificate System and MAA

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## Length and speed

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### Full instruments

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#### High precision line measures of length

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**Certificate System :**

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

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#### Taximeters

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**Certificate System :**

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

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#### Multi-dimensional measuring instruments

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**Certificate System :**

R 129 - 2000 : Multi-dimensional measuring instruments

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#### Measurement of area of leathers

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**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

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## Static liquid measurement

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### Full instruments

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#### Automatic level gauges for fixed storage tanks

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**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

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## Dynamic liquid measurement

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### Full instruments

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#### Water meters

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**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

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**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

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

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**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

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**Measuring systems for cryogenic liquids**

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**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

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**Direct mass flow measuring systems**

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**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

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**Gas measurement**

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**Full instruments**

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**Diaphragm gas meters**

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**Certificate System :**

R 31 - 1995 : Diaphragm gas meters

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**Weighing instruments**

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**Full instruments**

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**Load cells**

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**Certificate System and MAA :**

R 60 - 2000 : Metrological regulation for load cells

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**Non automatic weighing instruments**

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**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)

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**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

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**Continuous totalizing automatic weighing instruments**

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**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

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**Automatic rail weighbridges**

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**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

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**Discontinuous totalizing automatic weighing instruments**

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**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

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**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

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**Automatic catchweighing instruments**

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**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

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**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

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**Automatic gravimetric filling instruments**

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**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

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**In motion road weighing instruments**

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**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

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**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
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**Modules**

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**Indicators for non automatic weighing instruments**

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**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
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**Load receptors for non automatic weighing instruments**

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**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
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**Printing devices for non automatic weighing instruments**

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**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
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**Point of Sales devices for non automatic weighing instruments**

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**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
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**Environment**

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**Full instruments**

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**Exhaust gas analysers**

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**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
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**Gas chromatographs for measurement of pesticides**

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**Certificate System :**

- R 82 - 2006 : Gas chromatographic systems for measuring the pollution from pesticides and other toxic substances
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**Portable gas chromatographs**

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**Certificate System :**

- R 113 - 1994 : Portable gas chromatographs for field measurements of hazardous chemical pollutants
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## High performance liquid chromatographs

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### *Certificate System :*

R 112 - 1994 : High performance liquid chromatographs for measurement of pesticides and other toxic substances

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## Gas chromatographs / Mass spectrometers

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### *Certificate System :*

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

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## Plasma atomic emission spectrometers

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### *Certificate System :*

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

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## X-ray fluorescence spectrometers

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### *Certificate System :*

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

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## Instruments for the measurement of effluents in the atmosphere

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### *Certificate System :*

R 143 - 2009 : Instruments for the continuous measurement of SO<sub>2</sub> in stationary source emissions

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## Medical instruments

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### Full instruments

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#### Clinical electrical thermometers with maximum device

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##### *Certificate System :*

R 115 - 1995 : Clinical electrical thermometers with maximum device

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#### Clinical electrical thermometers for continuous measurement

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##### *Certificate System :*

R 114 - 1995 : Clinical electrical thermometers for continuous measurement

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#### Non-invasive mechanical sphygmomanometers

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##### *Certificate System :*

R 16 - 1 - 2002 : Mechanical non-invasive sphygmomanometers

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#### Non-invasive automated sphygmomanometers

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##### *Certificate System :*

R 16 - 2 - 2002 : Non-invasive automated sphygmomanometers

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#### Focimeters

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##### *Certificate System :*

R 93 - 1999 : Focimeters

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## Pure tone audiometers

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### *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
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## Equipment for speech audiometry

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### *Certificate System :*

- R 122 - 1996 : Equipment for speech audiometry
  - R 122 - C - 1999 : Equipment for speech audiometry - Annex C: Test report format
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## Ergometers for foot crank work

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### *Certificate System :*

- R 128 - 2000 : Ergometers for foot crank work
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## Spectrophotometers

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### *Certificate System :*

- R 135 - 2004 : Spectrophotometers for medical laboratories
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## Acoustics and vibrations

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### Full instruments

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#### Sound level meters

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##### *Certificate System :*

- R 58 - 1998 : Sound level meters
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#### Integrating-averaging sound level meters

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##### *Certificate System :*

- R 88 - 1998 : Integrating-averaging sound level meters
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#### Sound calibrators

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

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##### *Certificate System :*

- R 130 - 2001 : Octave-band and one-third-octave-band filters
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## Ionizing radiations

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### Full instruments

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#### Radiochromic film dosimetry system

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##### *Certificate System :*

- R 127 - 1999 : Radiochromic film dosimetry system for ionizing radiation processing of materials and products
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## **Polymethylmethacrylate dosimetry system**

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### ***Certificate System :***

R 131 - 2001 : Polymethylmethacrylate (PMMA) dosimetry systems for ionizing radiation processing of materials and products

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## **Alanine EPR dosimetry system**

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### ***Certificate System :***

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

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## **Physico-chemical measurements**

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### **Full instruments**

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#### **Evidential breath analysers**

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### ***Certificate System :***

R 126 - 1998 : Evidential breath analyzers

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## **Pressure**

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### **Full instruments**

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#### **Pressure gauges with elastic sensing element**

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### ***Certificate System :***

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

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#### **Vacuum gauges with elastic sensing element**

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### ***Certificate System :***

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

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#### **Pressure-vacuum gauges with elastic sensing element**

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### ***Certificate System :***

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

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## **Temperature, thermal energy**

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### **Full instruments**

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#### **Liquid-in-glass thermometers**

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### ***Certificate System :***

R 133 - 2002 : Liquid-in-glass thermometers

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#### **Platinum, copper and nickel resistance thermometers**

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### ***Certificate System :***

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

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## Heat meters

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### ***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
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## Testing of materials

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### Full instruments

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#### Force measuring systems of testing machines

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### ***Certificate System :***

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