



49th CIML Meeting

Agenda item 8.1 – Additional supporting information

Status of OIML Recommendations and Documents

20 October 2014

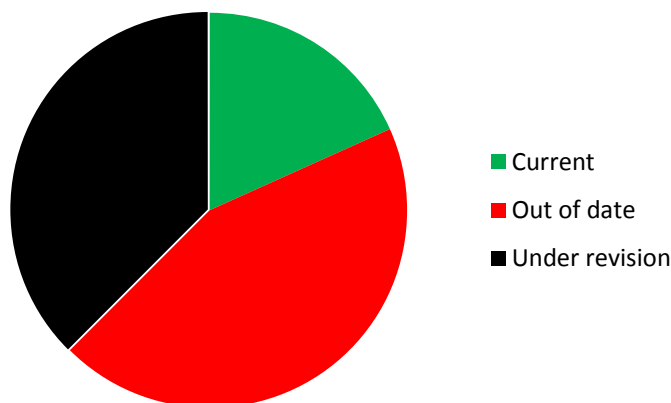
The table on the following pages lists all current OIML Recommendations and Documents.

- Those in **green text** are up to date since they were published or re-confirmed within the last five years.
- Those in **black text** may be out of date, but are currently under revision by a Project Group.
- Those **highlighted in yellow** are currently under revision by a Project Group, but it has been proposed to the CIML that their Project Group be disbanded, either due to insufficient P-members (less than the six required by B 6-1) or due to the lack of a P-member willing to take on the convenership.
- Those in **red text** are out of date, since they were published or last re-confirmed more than five years ago, but they are also not currently under revision by a Project Group.

This information gives the following statistics:

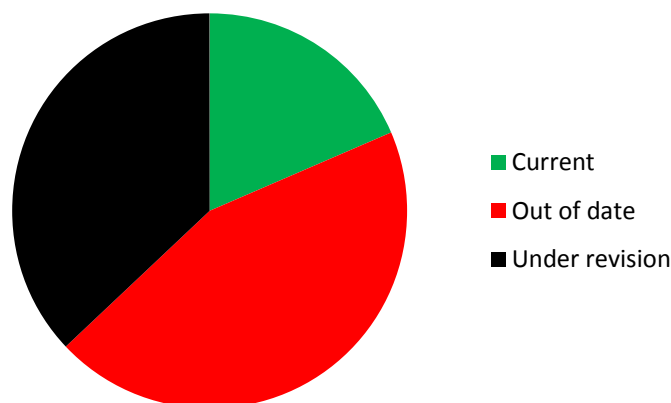
There are currently 103 Recommendations (counting requirements, test procedures and test report format as part of the same Recommendation). Of these:

- 19 (18.2%) were published or re-confirmed within the last five years
- 39 (44.2%) are under revision
- 46 (37.5%) are out of date and not under revision



There are currently 27 Documents. Of these:

- 5 (18.5%) were published or re-confirmed within the last five years
- 10 (44.4%) are under revision
- 12 (37.0%) are out of date and not under revision



Publication	Title	Edition	Sanctioned	Last confirmed	Under revision?
R 7	Clinical thermometers, mercury-in-glass with maximum device	1979	1976		Yes
R 14	Polarimetric saccharimeters graduated in accordance with the ICUMSA International Sugar Scale	1995	1996	2009	
R 15	Instruments for measuring the hectolitre mass of cereals	1974	1968		
R 16-1	Mechanical non-invasive sphygmomanometers	2002	2004		Yes
R 16-2	Non-invasive automated sphygmomanometers	2002	2004		Yes
R 18	Visual disappearing filament pyrometers	1989	1988		Yes
R 21	Taximeters. Metrological and technical requirements, test procedures and test report format	2007	2008		
R 22	International alcoholometric tables	1975	1972		Yes
R 23	Tire pressure gauges for motor vehicles	1975	1972		Yes
R 24	Standard one metre bar for verification officers	1975	1976	2007	
R 26	Medical syringes	1978	1976		Yes
R 34	Accuracy classes of measuring instruments	1979	1972		Yes with R 42, D 3, D 19, D 20
R 35-1	Material measures of length for general use. Part 1: Metrological and technical requirements	2007	2008		Yes
R 35-2	Material measures of length for general use. Part 2: Test methods	2011	2012		
R 35-3	Material measures of length for general use. Part 3: Test report format	2011	2012		
R 40	Standard graduated pipettes for verification officers	1981	1976		Yes with R 41, R 43
R 41	Standard burettes for verification officers	1981	1976		Yes with R 40, R 43
R 42	Metal stamps for verification officers	1981	1976		Yes with R 34, D 3, D 19, D 20
R 43	Standard graduated glass flasks for verification officers	1981	1976		Yes with R 40, R 41
R 44	Alcoholometers and alcohol hydrometers and thermometers for use in alcoholometry	1985	1984		

Publication	Title	Edition	Sanctioned	Last confirmed	Under revision?
R 46-1-2	Active electrical energy meters. Part 1: Metrological and technical requirements and Part 2: Metrological controls and performance tests	2012	2012		
R 46-3	Active electrical energy meters. Part 3: Test report format	2013			
R 47	Standard weights for testing of high capacity weighing machines	1979	1976		
R 48	Tungsten ribbon lamps for the calibration of radiation thermometers	2004	2004	2009	
R 49-1	Water meters for cold potable water and hot water. Part 1: Metrological and technical requirements	2013			
R 49-2	Water meters for cold potable water and hot water. Part 2: Test methods	2013			
R 49-3	Water meters for cold potable water and hot water. Part 3: Test report format	2013			
R 50-1	Continuous totalizing automatic weighing instruments (belt weighers). Part 1: Metrological and technical requirements - Tests	1997	1996		Yes
R 50-2	Continuous totalizing automatic weighing instruments (belt weighers). Part 2 : Test report format	1997			Yes
R 51-1	Automatic catchweighing instruments. Part 1: Metrological and technical requirements - Tests	2006	2008		
R 51-1-erratum	Erratum (2010.08.09) to R 51-1:2006 Automatic catchweighing instruments. Part 1: Metrological and technical requirements - Tests	2010			
R 51-2	Automatic catchweighing instruments. Part 2: Test report format	2006			
R 52	Hexagonal weights - Metrological and technical requirements	2004	2004		
R 53	Metrological characteristics of elastic sensing elements used for measurement of pressure. Determination methods	1982	1980		
R 54	pH scale for aqueous solutions	1981	1980		Yes
R 55	Speedometers, mechanical odometers and chronotachographs for motor vehicles. Metrological regulations	1981	1980		Yes
R 56	Standard solutions reproducing the conductivity of electrolytes	1981	2008		
R 58	Sound level meters	1998	1996		
R 59	Moisture meters for cereal grains and oilseeds	1984	1984		Yes
R 60	Metrological regulation for load cells	2000	2000		Yes
R 61-1	Automatic gravimetric filling instruments. Part 1 : Metrological and technical requirements - Tests	2004	2004		Yes

Publication	Title	Edition	Sanctioned	Last confirmed	Under revision?
R 61-2	Automatic gravimetric filling instruments. Part 2: Test report format	2004			Yes
R 63	Petroleum measurement tables	1994	1996		Yes
R 65	Force measuring system of uniaxial material testing machines	2006	2008		
R 66	Length measuring instruments	1985	1984		Yes
R 68	Calibration method for conductivity cells	1985	1984		
R 69	Glass capillary viscometers for the measurement of kinematic viscosity. Verification method	1985	1984		
R 71	Fixed storage tanks. General requirements	2008	2008		
R 75-1	Heat meters. Part 1: General requirements	2002	2004	2009	
R 75-2	Heat meters. Part 2: Type approval tests	2002	2004	2009	
R 75-3	Heat meters. Part 3: Test Report Format	2006		2009	
R 76-1	Non-automatic weighing instruments. Part 1: Metrological and technical requirements - Tests	2006	2008		
R 76-2	Non-automatic weighing instruments. Part 2: Test report format	2007			
R 78	Westergren tubes for measurement of erythrocyte sedimentation rate	1989	1988		
R 79	Labeling requirements for prepackaged products	1997	1996		Yes
R 80-1	Road and rail tankers with level gauging. Part 1: Metrological and technical requirements	2009	2012		Yes
R 81	Dynamic measuring devices and systems for cryogenic liquids	1998	2000		Yes
R 81-ann-d	Dynamic measuring devices and systems for cryogenic liquids - Annex D: Test report format	2006			
R 82	Gas chromatographic systems for measuring the pollution from pesticides and other toxic substances	2006	2008		
R 83	Gas chromatograph/mass spectrometer systems for the analysis of organic pollutants in water	2006	2008		
R 84	Platinum, copper, and nickel resistance thermometers (for industrial and commercial use)	2003	2004	2009	
R 85-1-2	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	2008	2008		
R 85-3	Automatic level gauges for measuring the level of liquid in stationary storage tanks. Part 3: Report Format for type evaluation	2008			

Publication	Title	Edition	Sanctioned	Last confirmed	Under revision?
R 87	Quantity of product in prepackages	2004	2004		Yes
R 87-erratum	Erratum (2008.06.16) to R 87 (Edition 2004) Quantity of product in prepackages	2008			
R 88	Integrating-averaging sound level meters	1998	1996		
R 89	Electroencephalographs - Metrological characteristics - Methods and equipment for verification	1990	1988		Yes
R 90	Electrocardiographs - Metrological characteristics - Methods and equipment for verification	1990	1988		Yes
R 91	Radar equipment for the measurement of the speed of vehicles	1990	1988		Yes
R 92	Wood-moisture meters - Verification methods and equipment: general provisions	1989	1988	2010	
R 93	Focimeters	1999	2000		
R 95	Ships' tanks - General requirements	1990	1992		Yes
R 97	Barometers	1990	1992		Yes
R 98	High-precision line measures of length	1991	1992		
R 99-1-2	Instruments for measuring vehicle exhaust emissions. Part 1: Metrological and technical requirements. Part 2: Metrological controls and performance tests	2008	2008		
R 99-3	Instruments for measuring vehicle exhaust emissions. Part 3: Report Format	2008			
R 100-1	Atomic absorption spectrometer systems for measuring metal pollutants. Part 1: Metrological and technical requirements	2013			
R 100-2	Atomic absorption spectrometer systems for measuring metal pollutants. Part 2: Test procedures	2013			
R 100-3	Atomic absorption spectrometer systems for measuring metal pollutants. Part 3: Test report format	2013			
R 101	Indicating and recording pressure gauges, vacuum gauges and pressure-vacuum gauges with elastic sensing elements (ordinary instruments)	1991	1988		Yes with R 109
R 102	Sound calibrators (including Annex A)	1992	1996		Yes
R 102-ann-b-c	Sound calibrators - Annexes B and C: Test methods for pattern evaluation and test report format	1995			Yes
R 103	Measuring instrumentation for human response to vibration	1992	1992		

Publication	Title	Edition	Sanctioned	Last confirmed	Under revision?
R 104	Pure-tone audiometers (including Annexes A to E)	1993	1992		
R 104-ann-f	Pure-tone audiometers - Annex F: Test report format	1997			
R 105	Direct mass flow measuring systems for quantities of liquids (including Annexes A and B)	1993	1992		Now in R 117
R 105-ann-c	Direct mass flow measuring systems for quantities of liquids - Annex C: Test report format	1995			Now in R 117
R 106-1	Automatic rail-weighbridges. Part 1: Metrological and technical requirements - Tests	2011	2012		
R 106-2	Automatic rail weighbridges. Part 2: Test report format	2012	2012		
R 107-1	Discontinuous totalizing automatic weighing instruments (totalizing hopper weighers). Part 1: Metrological and technical requirements - Tests	2007	2008		
R 107-2	Discontinuous totalizing automatic weighing instruments (totalizing hopper weighers). Part 2: Test report format	2007			
R 108	Refractometers for the measurement of the sugar content of fruit juices	1993	1992		
R 109	Pressure gauges and vacuum gauges with elastic sensing elements (standard instruments)	1993	1992		Yes with R 101
R 110	Pressure balances	1994	1996		
R 111-1	Weights of classes E1, E2, F1, F2, M1, M1-2, M2, M2-3 and M3. Part 1: Metrological and technical requirements	2004	2004		
R 111-2	Weights of classes E1, E2, F1, F2, M1, M1-2, M2, M2-3 and M3. Part 2: Test report format	2004			
R 112	High performance liquid chromatographs for measurement of pesticides and other toxic substances	1994	1996		Yes
R 113	Portable gas chromatographs for field measurements of hazardous chemical pollutants	1994	1996		
R 114	Clinical electrical thermometers for continuous measurement	1995	1996		
R 115	Clinical electrical thermometers with maximum device	1995	1996		
R 116	Inductively coupled plasma atomic emission spectrometers for the measurement of metal pollutants in water	2006	2008		
R 117-1	Dynamic measuring systems for liquids other than water. Part 1: Metrological and technical requirements	2007	2008		Yes
R 118	Testing procedures and test report format for pattern examination of fuel dispensers for motor vehicles	1995	1996		

Publication	Title	Edition	Sanctioned	Last confirmed	Under revision?
R 119	Pipe provers for testing of measuring systems for liquids other than water	1996	1996		Yes
R 120	Standard capacity measures for testing measuring systems for liquids other than water	2010	2012		
R 122	Equipment for speech audiometry	1996	1996		
R 122-ann-c	Equipment for speech audiometry - Annex C: Test report format	1999			
R 123	Portable and transportable X-ray fluorescence spectrometers for field measurement of hazardous elemental pollutants	1997	1996		
R 124	Refractometers for the measurement of the sugar content of grape musts	1997	1996	2009	
R 125	Measuring systems for the mass of liquids in tanks	1998	2000	2008	
R 126	Evidential breath analyzers	2012	2012		Yes
R 127	Radiochromic film dosimetry system for ionizing radiation processing of materials and products	1999	2000	2010	
R 128	Ergometers for foot crank work	2000	2000		
R 129	Multi-dimensional measuring instruments	2000	2000		Yes
R 130	Octave-band and one-third-octave-band filters	2001	2000		
R 131	Polymethylmethacrylate (PMMA) dosimetry systems for ionizing radiation processing of materials and products	2001	2000	2010	
R 132	Alanine EPR dosimetry systems for ionizing radiation processing of materials and products	2001	2000	2010	
R 133	Liquid-in-glass thermometers	2002	2004	2010	
R 134-1	Automatic instruments for weighing road vehicles in motion and measuring axle loads. Part 1: Metrological and technical requirements ? Tests	2006	2008		
R 134-2	Automatic instruments for weighing road vehicles in motion and measuring axle loads. Part 2: Test report format	2009	2012		
R 135	Spectrophotometers for medical laboratories	2004	2004		
R 136-1	Instruments for measuring the areas of leathers	2004	2004		
R 136-2	Instruments for measuring the areas of leathers. Part 2: Test Report Format	2006			
R 137-1-2	Gas meters. Part 1 Metrological and technical requirements and Part 2 Metrological controls and performance tests	2012	2012		
R137-1-2-Amend	Amendment to R 137-1 & -2: Gas meters	2014			

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R 137-3	Gas meters. Part 3: Test report format	2014			
R 138	Vessels for commercial transactions	2007	2012		
R 138-amend	Vessels for commercial transactions (Amendment 2009)	2009			
R 139	Compressed gaseous fuel measuring systems for vehicles	2007	2008		Yes
R 140	Measuring systems for gaseous fuel	2007	2008		
R 141	Procedure for calibration and verification of the main characteristics of thermographic instruments	2008	2008		
R 142	Automated refractometers: Methods and means of verification	2008	2008		
R 143	Instruments for the continuous measurement of SO ₂ in stationary source emissions	2009	2012		
R 144-1	Instruments for the continuous measurement of CO and NO _x in stationary source emissions. Part 1: Metrological and technical requirements	2013			
R 144-2	Instruments for the continuous measurement of CO and NO _x in stationary source emissions. Part 2: Metrological and performance tests	2013			
R 144-3	Instruments for the continuous measurement of CO and NO _x in stationary source emissions. Part 3: Test report format	2013			

Publication	Title	Edition	Sanctioned	Last confirmed	Under revision?
D 1	Considerations for a law on metrology	2012	2012		
D 2	Legal units of measurement	2007			
D 3	Legal qualification of measuring instruments	1979			Yes with R 34, R 42, D 19, D 20
D 5	Principles for the establishment of hierarchy schemes for measuring instruments	1982			Yes
D 8	Measurement standards. Choice, recognition, use, conservation and documentation	2004			Yes
D 9	Principles of metrological supervision	2004			
D 10	ILAC-G24/OIML D 10: Guidelines for the determination of recalibration intervals of measuring equipment used in testing laboratories	2007			Yes
D 11	General requirements for measuring instruments - Environmental conditions	2013			

Publication	Title	Edition	Sanctioned	Last confirmed	Under revision?
D 12	Fields of use of measuring instruments subject to verification	1986			
D 13	Guidelines for bi- or multilateral arrangements on the recognition of: test results - pattern approvals - verifications	1986			Yes
D 14	Training and qualification of legal metrology personnel	2004			
D 16	Principles of assurance of metrological control	2011	2012		
D 17	Hierarchy scheme for instruments measuring the viscosity of liquids	1987			
D 18	The use of certified reference materials in fields covered by metrological control exercised by national services of legal metrology. Basic principles	2008			
D 19	Pattern evaluation and pattern approval	1988			Yes with R 34, R 42, D 3, D 20
D 20	Initial and subsequent verification of measuring instruments and processes	1988			Yes with R 34, R42, D 3, D 19
D 21	Secondary standard dosimetry laboratories for the calibration of dosimeters used in radiotherapy	1990			
D 22	Guide to portable instruments for assessing airborne pollutants arising from hazardous wastes	1991			Yes
D 23	Principles for metrological control of equipment used for verification	1993			Yes
D 24	Total radiation pyrometers	1996		2008	
D 25	Vortex meters used in measuring systems for fluids	2010			
D 26	Glass delivery measures - Automatic pipettes	2010			
D 27	Initial verification of measuring instruments using the manufacturer's quality management system	2001			
D 28	Conventional value of the result of weighing in air (Revision of R 33)	2004			
D 29	Guide for the application of ISO/IEC Guide 65 to assessment of measuring instrument certification bodies in legal metrology	2008			
D 30	Guide for the application of ISO/IEC 17025 to the assessment of Testing Laboratories involved in legal metrology	2008			Yes
D 31	General requirements for software controlled measuring instruments	2008			