

## TCs/SCs projects

### TC 1 - Terminology

p2: Revision of V1 (VIML) R 1

### TC 3 - Metrological control

p1: Revision of R 34: Accuracy classes of measuring instruments. R 34

p2: Revision D 3: Legal qualification of measuring instruments. D 3

p5: Revision R 42: Metal stamps for verification officers. R 42

p6: Revision of D 1 D 1

### TC 3/SC 1 - Pattern Approval and verification

p1: Revision D 19: Pattern evaluation and pattern approval. D 19

p2: Revision D 20: Initial and subsequent verification of measuring instruments and processes. D 20

p4: Revision D 13: Guidelines for bi- or multilateral arrangements on the recognition of: test results - pattern approvals - verifications. D 13

### TC 3/SC 2 - Metrological supervision

p5: Revision D 16: Principles of assurance of metrological control D 16

### TC 3/SC 4 - Application of statistical methods

p1: Surveillance of utility meters in service on the basis of sampling inspections High priority

### TC 3/SC 5 - Conformity assessment

p2: Expression of uncertainty in measurement in legal metrology applications High priority

p7: Revision of B3 OIML Certificate System for Measuring Instruments R 3

p8: Revision of B 10-1 Framework for a Mutual Acceptance Arrangement on OIML Type Evaluations (MAA) R 10

p10: Guide for the application of ISO/IEC 17021 to the assessment of quality system certification bodies in the field of legal metrology

p11: Guide for the application of ISO 9001 to legal metrology controls

### TC 4 - Measurement standards and calibration and verification devices

p1: Principles for the selection and expression of metrological characteristics of standards and devices used for calibration and verification

p2: Revision D 5: Principles for the establishment of hierarchy schemes for measuring instruments D 5

p5: Revision D 10: Guidelines for the determination of recalibration intervals of measuring equipment used in testing laboratories D 10

p6: Revision D 23: Principles for metrological control of equipment used for verification D 23

p7: Measurement Standards. Choice, recognition, use, conservation and documentation D 8

### TC 5 - General requirements for measuring instruments

#### TC 5/SC 1 - Environmental conditions

p1: Revision of D 11 "General requirements for electronic measuring instruments D 11

Note: during its 43rd Meeting, the CIML decided to change the name and the scope of TC 5/SC 1 and therefore, to extend the scope of D 11.

#### TC 5/SC 2 - Software

p2: New project "Methods and means for Verification"

### TC 6 - Prepackaged products

p1: OIML certificate for prepackaged goods

p2: Revision of R 79 "Labeling requirements for prepackaged products" R 79

p3: Revision R 87 "Quantity of product in Prepackages" R 87

p4: Methods for determining the quantity of product in prepackages

### TC 7 - Measuring instruments for length and associated quantities

p1: Revision R 35-1: Material measures of length for general use R 35

p2: Test methods to revised R 35-1

p3: Test Report Format to revised R 35-1

Priority

### TC 7/SC 1 - Measuring instruments for length

p2: Revision R 66: Length measuring instruments R 66

## TCs/SCs projects

### TC 7/SC 3 - Measurement of areas

### TC 7/SC 4 - Measuring instruments for road traffic

High priority

p1: Taximeters systems

p2: Revision of R 55: Speedometers, mechanical odometers and chronotachographs for motor vehicles

p3: Revision of R 91: Radar equipment for the measurement of the speed of vehicles R 91

### TC 7/SC 5 - Dimensional measuring instruments

p1: Revision R 129: Multi-dimensional measuring instrument R 129

### TC 8 - Measurement of quantities of fluids

p2: Test report format for vessels

p3: Combined revision of R 40, R 41 & R 43 on standard volumetric measures R 40

p4: Test report format for standard volumetric measures

p5: Revision of R 63 "Petroleum measurement tables" R 63

p6: Revision R 119 "Pipe provers" R 119

### TC 8/SC 1 - Static volume and mass measurement

p1: Revision R 80 (Part 1: Technical and metrological requirements) R 80

p2: Installations for gauging road and rail tankers R 80

p4: Revision R 85 (Part 1 Metrological and technical requirements - Tests; Part 2 Metrological control; Part 3 Test report format) R 85

p5: Revision R 95 R 95

p6: Revision R 80 (Part. 2: Metrological control and tests, Part 3: Test Report Format) R 80

### TC 8/SC 3 - Dynamic volume and mass measurement (liquids other than water)

p2: R 117-2: Measuring systems for liquids other than water - Part 2: Test methods.

High priority

p3: Measuring systems for liquids other than water - Part 3: Evaluation Report Format.

High priority

### TC 8/SC 5 - Water meters

p1: Certificate transformation requirements for R 49

p2: Revision of R 49-1, R 49-2, R 49-3

This revision is carried out in collaboration with ISO TC 30/SC 7 and CEN 92

p3: Revision of D 7

An informal working-group is studying the opportunity to revise OIML D 7

### TC 8/SC 6 - Measurement of cryogenic liquids

p1: Revision of OIML R 81 R 81

### TC 8/SC 7 - Gas metering

p3: R 137-2: Gas meters - Part 2 Test methods

p4: Revision of OIML R 139 Compressed gaseous fuels measuring systems for vehicles

### TC 9 - Instruments for measuring mass and density

p1: Revision of R 60 "Metrological Regulation for Load Cells" R 60

### TC 9/SC 1 - Nonautomatic weighing instruments

### TC 9/SC 2 - Automatic weighing instruments

p3: Revision of R 106 Parts 1 and 2

R 106

p6: Automatic instruments for weighing road vehicles in motion and axle load measuring. Part 2 - Test report format (Revision R 134-2)

p7: Revision of R 50. Part 1

p8: Revision of R 61 2004E - Automatic Gravimetric Filling Instruments

### TC 9/SC 3 - Weights

### TC 9/SC 4 - Densities

p2: Revision R 22: International alcoholometric tables

p3: Hierarchy scheme for density-measuring instruments

## **TCs/SCs projects**

### **TC 10 - Instruments for measuring pressure, force and associated quantities**

p1: Revision R 23: Tire pressure gauges for motor vehicles

#### **TC 10/SC 1 - Pressure balances**

p1: Pressure transducers with (4-20) mA or (10-50) mA output signal

#### **TC 10/SC 2 - Pressure gauges with elastic sensing elements**

p1: Pressure gauges with elastic sensing elements

p2: Revision R101: Indicating and recording pressure gauges, vacuum gauges and pressure-vacuum gauges with elastic sensing elements (ordinary instruments).

p3: Revision R 109: Pressure gauges and vacuum gauges with elastic sensing elements (standard instruments).

#### **TC 10/SC 3 - Barometers**

p1: Revision R 97: Barometers

#### **TC 10/SC 4 - Material testing machines**

p2: Draft Recommendation "Requirements for force measuring instruments for verifying material testing machines"

### **TC 11 - Instruments for measuring temperature and associated quantities**

#### **TC 11/SC 1 - Resistance thermometers**

#### **TC 11/SC 2 - Contact thermometers**

p2: Document "Standardized thermocouples".

#### **TC 11/SC 3 - Radiation thermometers**

p3: Standard black body radiator for the temperature range from - 50°C to 2500°C

p5: Revision of R 18

### **TC 12 - Instruments for measuring electrical quantities**

p1: Revision R 46: Active electrical energy meters for direct connection of class 2.

p2: Verification of watt-hour meters

High priority

### **TC 13 - Measuring instruments for acoustics and vibration**

p2: Revision R 103: Measuring instrumentation for human response to vibration.

p3: Revision R 102: Sound calibrators (including Annex A)

p4: Revision R 104: Pure-tone audiometers

p5: Combined revision of R 58 + R 88: Connected with the ongoing revision of IEC 61672 Sound level meters.

### **TC 14 - Measuring instruments used for optics**

### **TC 15 - Measuring instruments for ionizing radiations**

#### **TC 15/SC 1 - Measuring instruments for ionizing radiations used in medical applications**

p1: Measurement of radionuclides pollution

p2: Reference dosimetry system for ionizing radiation processing

p3: Radiation protection dosimetry for area monitoring

p4: Dosimeters and dose-rate meters of beta-radiation for application in therapy.

#### **TC 15/SC 2 - Measuring instruments for ionizing radiations used in industrial processes**

### **TC 16 - Instruments for measuring pollutants**

#### **TC 16/SC 1 - Air pollution**

p1: (combined projects p1 and p3) Continuous measuring instruments for CO and NOx emissions

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p3: Continuing measuring instruments for CO emissions

### TC 16/SC 2 - Water pollution

p2: Revision R 100: Atomic absorption spectrometer systems for measuring metal pollutants in water.

Priority

### TC 16/SC 3 - Pesticides and other pollutant toxic substances

p2: Revision R 112: High performance liquid chromatographs for measurement of pesticides and other toxic substances.

### TC 16/SC 4 - Field measurements of hazardous (toxic) pollutants

p1: Guide to air sampling devices for toxic chemical pollutants at hazardous waste sites.  
p2: FTIR (Fourier transform infrared) spectrometers for measurement of air pollutants  
p3: Revision D 22 (incorporating p 2): Guide to portable instruments for assessing airborne pollutants arising from hazardous wastes.

## TC 17 - Instruments for physico-chemical measurements

### TC 17/SC 1 - Humidity

p1: Revision R 59: Moisture meters for cereal grains and oilseeds.

### TC 17/SC 2 - Saccharimetry

p1: Revision R 108: Refractometers for the measurement of the sugar content of fruit juices.  
p2: Automatic refractometers. Methods and means of verification.

### TC 17/SC 3 - pH-metry

p1: Revision R 54: pH scale for aqueous solutions  
p2: Method of carrying out pH-measurements and certification methods of solution for verification of pH-meters.

### TC 17/SC 4 - Conductometry

p1: Revision R 56: Standard solutions reproducing the conductivity of electrolytes  
p1: -1: "Traceability of electrolytic conductivity measurements results" (preliminary title of IR)  
p2: Revision R 68: Calibration method for conductivity cells  
p3: Methods of measurement of the conductivity of electrolytic solutions (combined with p2)

### TC 17/SC 5 - Viscosimetry

p1: Reference standard liquids (Newtonian viscosity standard for the calibration and verification of viscometers)

### TC 17/SC 6 - Gas analysis

### TC 17/SC 7 - Breath testers

p1: Revision R 126: Evidential breath analysers.  
p2: Test procedures and test report format for the evaluation of portable breath testers used in open air (Annexes to R 126).

### TC 17/SC 8 - Instruments for quality analysis of agricultural products

p1: Measuring instruments used for protein determination in grains

## TC 18 - Medical measuring instruments

p1: Ophthalmic instruments - Impression and applanation tonometers.

### TC 18/SC 1 - Blood pressure instruments

p1: Revision of "Non-invasive mechanical sphygmomanometers", OIML R 16-1

R 16

### TC 18/SC 2 - Medical thermometers

p1: Revision R 7: Clinical thermometers, mercury-in-glass with maximum device.  
p2: Clinical infrared ear thermometers

### TC 18/SC 4 - Bio-electrical instruments

p1: Electrodes for electrocardiographs and electroencephalographs - Methods and means for verification.  
p2: Electrocardioscopes - Metrological characteristics - Methods and means for verification.

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p3: Digital electrocardiographs and electrocardioscopes - Metrological characteristics - Methods and means for verification.

p4: Revision R 90: Electrocardiographs including Test report format 'developed earlier)..

p5: Analyzing electrocardiographs. Metrological requirements. Methods and means of verification.

p6: Revision R 89: Electroencephalographs - Metrological characteristics - Methods and equipment for verification.

## **TC 18/SC 5 - Measuring instruments for medical laboratories**

p1: Electronic blood cell counting chambers.

p4: Revision R 26: Medical syringes.