

127/2024 .

DECREE

of 13 May 2024

amending the Decree of the Ministry of Industry and Trade No 345/2002 laying down measuring instruments for mandatory verification and measuring instruments subject to type approval, as amended

Pursuant to § 27 of Act No 505/1990 on metrology, as amended by Act No 119/2000, Act No 137/2002 and Act No 85/2015, the Ministry of Industry and Trade lays down the following:

Article I

Decree No 345/2002 laying down measuring instruments for mandatory verification and measuring instruments subject to type approval, as amended by Decree No 65/2006, Decree No. 259/2007, Decree No 204/2010, Decree No 285/2011 and Decree No 120/2015 is amended as follows:

1. In § 2, the third sentence reads as follows:

'The following are also not subject to type approval: taximeter measurement assemblies, volumetric flasks, burettes and pipettes of accuracy class A and AS, precision class A volumetric cylinders, stationary tanks used as volume meters, tachographs in road transport tensioning sets for prestressed concrete and rock anchors, personal sound exposure meters and butyrometers.'

2. The annex reads as follows:

'Annex

List of specified measuring instrument types

| Item | Field of measurement, measuring instrument type | Verification validity period | Verification certificate issued |
|-------|--|------------------------------|---------------------------------|
| 1 | MEASURING INSTRUMENTS FOR GEOMETRIC QUANTITIES | | |
| 1.1 | Material measures | | |
| 1.1.1 | Mass length gauges | 5 years | no |
| 1.1.2 | Capacity measures | unlimited | no |
| 1.2 | Measuring instruments for measuring dimensions | | |
| 1.2.1 | Measuring instruments for measuring the length of coiled materials | 2 years | no |
| 1.2.2 | Multi-dimensional measuring instruments | 2 years | no |
| 1.3 | Other length and volume measuring instruments | | |
| 1.3.1 | Automatic level gauges on stationary tanks | | |
| | a) automatic level gauges without automatic control of metrological parameters | 2 years | yes |

| | | | |
|-------|---|-----------|-----|
| | b) automatic level gauges with automatic control of metrological parameters | 4 years | yes |
| 1.3.2 | Volumetric flasks, burettes, class A and AS precision pipettes used for volume checks | unlimited | no |
| 1.3.3 | Precision Class A graduated cylinders used for volume checks | unlimited | no |
| 1.3.4 | Transport drums made of corrosion-resistant materials, permanent shape | unlimited | no |
| 1.3.5 | Transport tanks (cisterns) for liquids | | |
| | a) transport tanks with one or more volume marks | 4 years | no |
| | b) transport tanks with automatic level gauges | 2 years | no |
| 1.3.6 | Fixed storage tanks used as instruments for measuring volume | | |
| | a) refrigerated and storage tanks for milk | 4 years | yes |
| | b) wooden non-transport barrels | 5 years | no |
| | c) non-transport barrels made of other materials | 10 years | no |
| | d) tanks excluding concrete and masonry storage tanks | 10 years | yes |
| 1.3.7 | Alcohol measuring instruments used to measure the amount of alcohol produced ^[1] | 3 years | yes |

2 FLOW RATE AND FLOW QUANTITY METERS

2.1 Liquids flow rate and flow quantity meters

| | | | |
|-------|--|---------|----|
| 2.1.1 | Meters measuring water flow quantity | | |
| | a) measuring instruments measuring the flow quantity of cold drinking water and hot water - mechanical water meters | 5 years | no |
| | b) measuring instruments measuring the flow quantity of cold drinking water and hot water - static water meters | 8 years | no |
| | c) water flow measuring instruments – water meters except for those referred to in points (a) and (b) | 5 years | no |
| 2.1.2 | Measuring instruments and measuring systems for flow quantities of liquids other than water or liquefied gases | 2 years | no |
| 2.1.3 | Measuring instruments and measuring systems for the flow quantity of liquefied gases | 1 year | no |
| 2.1.4 | Components of measuring instruments and measuring systems for the flow quantities of liquids that are not integral parts of measuring instruments and measuring systems pursuant to 2.1.1 or 2.1.2, or 2.1.3 | | |
| | a) measuring pressure transducers | 2 years | no |
| | b) temperature sensors | 4 years | no |

| | | | |
|-------|--|-------------------------|----|
| | c) temperature sensors with transducer | 2 years | no |
| | d) flow-through oscillating density meters | 1 year | no |
| 2.2 | Gas flow rate and flow quantity meters | | |
| 2.2.1 | Measuring instruments and measuring systems for gas flow rate and flow quantity and their components | | |
| | a) diaphragm gas meters (including gas meters with mechanical temperature correction) | 10 years ^[2] | no |
| | b) Coriolis mass meters | 5 years ^[3] | no |
| | c) turbine gas meters | 5 years | no |
| | d) Rotary gas meters | 5 years | no |
| | e) ultrasonic gas meters | 5 years ^[4] | no |
| | f) thermal mass gas meters | 2 years | no |
| | g) compact and combined gas quantity calculators | 5 years ^[5] | no |
| | Alternatively, for combined gas calculators, verification of separate elements may be used: | | |
| | i. evaluation unit | 5 years | no |
| | ii. temperature sensor | 4 years | no |
| | iii. temperature sensor with transducer | 2 years | no |
| | iv. pressure transducer | 2 years | no |
| | h) flow rate sensors with primary element | 5 years | no |
| | i) evaluation units | 5 years | no |
| | j) static pressure transducers | 2 years | no |
| | k) differential pressure transducers | 1 year | no |
| | l) temperature sensors | 4 years | no |
| | m) temperature sensors with transducer | 2 years | no |
| | d) density and relative density gauges | 1 year | no |
| 2.2.2 | Compressed gas flow quantity meters and measuring assemblies for the propulsion of motor vehicles | 1 year | no |
| 3 | MEASURING INSTRUMENTS FOR MECHANICAL QUANTITIES | | |
| 3.1 | Weight measuring instruments | | |
| 3.1.1 | Weights | 2 years | no |

3.1.2 Non-automatic weighing scales

| | | |
|---|---------|-----|
| a) Class I, II and III weighing scales | 2 years | no |
| b) Class III scales used for weighing sand, natural aggregates, municipal solid waste, recyclable materials, building debris, mineral broken materials and weighing mortar and concrete | 2 years | no |
| c) axle or wheel load gauges for rolling stock | 3 years | no |
| d) scales for static vehicle check weighing | 1 year | yes |

3.1.3 Automatic weighing scales

| | | |
|---|---------|-----|
| a) rail scales for weighing rolling stock in motion | 2 years | no |
| b) weighing scales for sand, natural aggregates, municipal solid waste, recyclable materials, building debris, mineral and broken materials and weighing of mortar and concrete | 1 year | no |
| c) scales for low-speed check weighing of vehicles ^[6] | 1 year | yes |
| d) scales for high-speed check weighing of vehicles ^[6] | 1 year | yes |
| e) continuous summing scales | 2 years | no |
| f) gravimetric filling scales | 2 years | no |
| g) catch-weighing scales | 2 years | no |
| h) discontinuous summing scales | 2 years | no |

Automatic and non-automatic scales used by packaging

3.1.4 plant operators to measure the true content of the prepackaged product

3.1.5 Grain testers

3.2 Mechanical motion measuring instruments

3.2.1 Road speedometers used to check the compliance with road traffic rules

3.2.2 Tachographs in road transport

| | | |
|-------------|------------------------------------|----|
| a) analogue | 2 years from the verification date | no |
| b) digital | 2 years from the verification date | no |

3.2.3 Taxi vehicles' taximeter assemblies

| | | | | |
|-------|--|-----------|-----|--|
| 3.3 | Pressure gauges | | | |
| 3.3.1 | Eye tonometers | | | |
| | a) contact mechanical | 1 year | no | |
| | b) contactless and contact electronic | 2 years | no | |
| 3.3.2 | Blood pressure measuring instruments | 2 years | no | |
| 3.3.3 | Tyre pressure gauges for road motor vehicles, excluding pressure gauges used exclusively for the measurement of tyre pressure by users of motor vehicles | 2 years | no | |
| 3.4 | Force gauges | | | |
| 3.4.1 | Tendon assemblies for prestressed concrete and rock anchors | 6 months | yes | |
| 4 | MEASURING INSTRUMENTS FOR TECHNICAL THERMAL QUANTITIES | | | |
| 4.1 | Thermometers and heat meters | | | |
| 4.1.1 | Electronic contact-type medical thermometers | 2 years | | |
| 4.1.2 | Heat meters and elements thereof | | | |
| | a) compact heat energy meters | 5 years | no | |
| | b) flow sensors and flow meters | 5 years | no | |
| | c) temperature sensors | 5 years | no | |
| | d) temperature sensors with transducer | 2 years | no | |
| | e) pressure transducers | 2 years | no | |
| | f) evaluation units of combined heat meters | 5 years | no | |
| 4.1.3 | Thermometers for temperature checks stipulated by food legislation ^[7] used by inspection authorities | 2 years | no | |
| 4.1.4 | Thermometers for checking ambient temperature and hot water with 0.1 °C or better scale division ^[8] used by inspection authorities | | | |
| | a) glass | unlimited | no | |
| | b) electronic | 2 years | no | |
| 4.1.5 | Temperature gauges used on stationary tanks for conversion to reference conditions | | | |
| | a) temperature sensors | 4 years | no | |
| | b) temperature sensors with transducer | 2 years | no | |

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|-------|--|-------------------------|----|
| 5 | MEASURING INSTRUMENTS FOR ELECTRICAL QUANTITIES | | |
| 5.1 | Measuring instruments for electrical quantities | | |
| 5.1.1 | Inductive electricity meters for alternating current | | |
| | a) for measuring electrical energy in direct connection | 16 years ^[9] | no |
| | b) for measuring electrical energy in conjunction with measuring transformers | 5 years | no |
| 5.1.2 | Static electricity meters for alternating current | | |
| | a) for measuring electrical energy in direct connection | 12 years ^[9] | no |
| | b) for measuring electrical energy in conjunction with measuring transformers | 5 years | no |
| 5.1.3 | Current and voltage measuring transformers | | |
| | a) induction meters used in conjunction with electricity meters | unlimited | no |
| | b) capacitive used in conjunction with electricity meters | 5 years | no |
| 5.1.4 | Measuring instruments and measuring systems for recharging stations | | |
| 6 | MEASURING INSTRUMENTS FOR OPTICAL QUANTITIES | | |
| 6.1 | Measuring instruments for photometric quantities | | |
| 6.1.1 | Luxmeters | | |
| 7 | MEASURING INSTRUMENTS FOR TIME, FREQUENCY AND ACOUSTIC QUANTITIES | | |
| 7.1 | Sound pressure gauges | | |
| 7.1.1 | Sound measuring instruments and measuring systems functioning as a Class 1 and 2 sound meter or analyser | | |
| 7.1.2 | Tonal audiometers | | |
| 7.1.3 | Personal sound exposure meters | | |
| 8 | MEASURING INSTRUMENTS FOR PHYSICOCHEMICAL QUANTITIES | | |
| 8.1 | Density meters | | |
| 8.1.1 | Laboratory density meters with a scale division value of less than $1 \text{ kg} \cdot \text{m}^{-3}$ excluding soil density meters (Casagrande) | | |
| 8.1.2 | Laboratory alcohol meters with a scale division $\leq 0.2 \%$ | | |
| 8.1.3 | Laboratory saccharimeters with a scale division value of 0.1% | | |
| 8.1.4 | Laboratory must meters with a scale division value of $0.2 \text{ kg} \cdot \text{hl}^{-1}$ | | |

| | | | |
|-------|--|-------------------------|-----|
| 8.1.5 | Laboratory milk density meters with a scale division value $\leq 0.5 \text{ kg; m}^{-3}$ | unlimited | yes |
| 8.1.6 | Oscillating laboratory density meters with ability to temper the measured sample or with automatic temperature correction | 1 year | yes |
| 8.2 | Solids moisture measuring instruments | | |
| 8.2.1 | Moisture meters for cereals and oilseeds | 1 year | yes |
| 8.3 | Chemical composition measuring instruments | | |
| 8.3.1 | Process gas chromatographs for determining the energy value of energy gases and their mixtures | 1 year | yes |
| 8.3.2 | Measuring systems for determining the energy value of energy gases and their mixtures | 5 years ^[10] | yes |
| 8.3.3 | Analysers of the chemical composition of energy gases and their mixtures | 1 year | yes |
| 8.3.4 | Breath alcohol analysers | 1 year | yes |
| 8.4 | Other measuring instruments for physicochemical quantities | | |
| 8.4.1 | Butyrometers | unlimited | no |
| 9 | MEASURING INSTRUMENTS FOR ATOMIC AND NUCLEAR PHYSICS | | |
| 9.1 | Activity quantities meters ^[11] for aerosols, gases and liquids released in the workplace | 2 years | no |
| 9.2 | Activity quantities meters used to check the content of radionuclides in solid substances, items and equipment released in the workplace | 2 years | no |
| 9.3 | Activity quantities meters used to determine the content of radionuclides in the environment | 2 years | no |
| 9.4 | Measuring instruments for activity and dosimetric quantities ^[12] used to check compliance with the criteria set out in the limits and conditions of a nuclear installation | 2 years | no |
| 9.5 | Measuring instruments for activity and dosimetric quantities used to check compliance with the criteria set out in the limits and conditions for handling nuclear waste | 2 years | no |
| 9.6 | Measuring instruments for pulse frequency, activity and dosimetric quantities used for early detection of deviations from normal operation in order to prevent the occurrence or development of a radiological emergency | 2 years | no |
| 9.7 | Measuring instruments for activity and dosimetric quantities intended to monitor the radiation situation during and after a radiological emergency | 2 years | no |
| 9.8 | Measuring instruments for activity and dosimetric quantities used for the determination of personal doses, including personal doses from accidental exposure | 1 year | no |
| 9.9 | Measuring instruments for activity quantity of diagnostic and therapeutic agents administered in vivo to patients | 1 year | no |
| 9.10 | Measuring instruments for dosimetric quantities used to determine diagnostic and therapeutic doses applied in medical irradiation | 2 years | no |
| 9.11 | Volumetric activity meters for natural radionuclides in the air, equivalent volume activity of radon ^[13] and dosimetric quantities used for the purposes of preventing the | 2 years | no |

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|------|--|---------|----|
| | penetration of radon into buildings and for protection against exposure from natural radionuclides in buildings and workplaces with the possibility of increased exposure from a natural source of radiation and with possible increased irradiation from radon | | |
| 9.12 | Activity quantities meters used to check the content of natural radionuclides in building materials and drinking water | 2 years | no |
| 9.13 | Activity quantities meters used to check the content of radionuclides in food and dosimetric quantity meters used for routine and validation measurements in food irradiation | 2 years | no |
| 9.14 | Measuring instruments for pulse frequency, activity and dosimetric quantities used to prevent and detect unauthorised activity associated with fissile and other radioactive substances | 2 years | no |
| 9.15 | Measuring instruments for pulse frequency, activity and dosimetric quantities used for the detection and identification of a radionuclide source in the search for an orphan source by operators of a scrap metal smelting, collection and processing facilities and operators of waste incineration plants and co-incineration plants | 2 years | no |
| 9.16 | Activity spectrometers used to check radionuclide content in metallurgical products and radiopharmaceuticals | 2 years | no |

Article II Transitional provisions

1. The verification of specified measuring instruments for the period pursuant to Decree No 345/2002, as amended prior to the effective date of this Decree, shall remain in force for the period of validity of the verification pursuant to Decree No 345/2002, as amended prior to the effective date of this Decree.

2. The measuring instrument types listed in the Annex in items 1.2.2, 1.3.3, 1.3.5(b), 2.1.1(c), 2.2.1(f), 2.2.2, 4.1.5, 5.1.4, 8.1.6, 8.3.2 and 8.3.3 of Decree No 345/2002, as amended prior to the effective date of this Decree, are stipulated for mandatory type approval and verification from 1 January 2026, with the exception of measuring instruments and measuring systems for the flow of compressed natural gas for the propulsion of motor vehicles pursuant to subheading 2.2.2 of the Annex to Decree No 345/2002, as amended by this Decree.

Article III Final provisions

This Decree was notified in accordance with Directive (EU) 2015/1535 of the European Parliament and of the Council of 9 September 2015 laying down a procedure for the provision of information in the field of technical regulations and of rules on Information Society services.

Article IV Effective date

This Decree shall take effect on 1 July 2024.

Minister:

Ing. Síkela m. p.