II.

Draft

DECREE

of … 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 to Decree No 345/2002

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

Note:

[1] Decree No 150/2008 on the monitoring of the production and circulation of alcohol and on the implementation of other provisions of the Alcohol Act, as amended by Decree No 8/2022

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) meters measuring the flow quantity of cold drinking water and hot water — mechanical water meters	5 years	no
	b) meters measuring the flow quantity of cold drinking water and hot water — static water meters	8 years	no
	c) water flow meters – water meters other than 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 fluid flow 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

Note:

[2] Based on a positive result of a statistical selection test of a specified set of diaphragm gas meters up to size G6, the validity period of the verification of the gas meters of this set is extended by 5 years.

[3] The verification validity period applies contingent on passing a shortened test during the third year of verification validity.

[4] Based on a positive result of a statistical sample test of a specified set of ultrasound gas meters up to size G6, the verification validity period of the gas meters of this set is extended by 3 years.

[5] The verification validity period applies contingent on the gas quantity calculator passing a shortened test during the third year of verification validity.

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
3.1.4	Automatic and non-automatic scales used by packaging plant operators to measure the true content of the prepackaged product	1 year	no
3.1.5	Grain testers	2 years	no

Note:

[6] Act No 13/1997 on roads, as amended.

3.2 Mechanical motion measuring instruments

3.2.1	Road speedometers used to check the compliance with road traffic rules	1 year	yes
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	2 years	no
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

Note:

[7] For example, Decree No 366/2005 on requirements applicable to certain frozen foods and Decree No 137/2004 on hygiene requirements for catering services and on operational hygiene principles for epidemiologically serious activities, as amended by Decree No 602/2005 or Decree No 121/2023 on food requirements.

[8] Decree No 194/2007 laying down rules for heating and supply of hot water, specific indicators of thermal energy consumption for heating and for the preparation of hot water and requirements for the equipment of indoor thermal equipment of buildings with instruments regulating and registering the supply of thermal energy, as amended by Decree No 237/2014.

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	4 years	no

Note:

[9] Based on a positive result of a statistical sample test of a specified set of electricity meters, the validity period of the verification of the electricity meters in this set is extended by 4 years.

6 MEASURING INSTRUMENTS FOR OPTICAL QUANTITIES

6.1 Measuring instruments for photometric quantities

6.1.1	Luxmeters	2 years	yes

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	2 years	yes
7.1.2	Tonal audiometers	2 years	yes
7.1.3	Personal sound exposure meters	2 years	yes

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 $kg \cdot m^{-3}$ excluding soil density meters (Casagrande)	unlimited	yes
8.1.2	Laboratory alcoholometers with a scale division of ≤ 0.2 %	unlimited	yes
8.1.3	Laboratory saccharimeters with a scale division value of 0.1 %	unlimited	yes
8.1.4	Laboratory must meters with a scale division value of 0.2 $kg \cdot hl^{-1}$	unlimited	yes

8.1.5	Laboratory milk density meters with a scale division value ≤ 0.5 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

Note:

[10] The period of validity of the verification is subject to the condition that the measuring system passes a shortened positive test during each year of validation.

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 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	2 years	no
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

Note:

[11] Activity quantities are defined by ČSN EN ISO 80000-10:2013.

[12] Dosimetric quantities are defined by ČSN EN ISO 80000-10:2013 and ICRU Report No. 51.

[13] The equivalent volume activity of radon is defined by ICRU Report No.88.'.

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