

COUNTRY INFORMATION OF WELMEC MEMBERS



TÜRKİYE

1. Organizational Structure and Background

In Türkiye, the Ministry of Industry and Technology (MIT) (www.sanayi.gov.tr) is the top administrative body responsible for all regulation activities in legal metrology. Within MIT, two bodies related to metrology are actively operational:

Directorate General for Metrology and Industrial Products Safety: This directorate oversees legal metrology activities across Türkiye and is responsible for drafting and implementing national metrology policies, as well as aligning them with international standards. It operates under Law No. 3516 ("Measurements and Calibration"), Law No. 7223 ("Preparation and Implementation of the Technical Legislation Regarding Products"), and Presidential Decree No. 1 issued on July 9, 2018. Türkiye accepted SI unit system in 1931 by Law of Measures (Law no 1782). After the decisions No: 1/95 and 2/97 between EU and Turkey, EU directives on legal metrology were transposed into Turkish law as regulations and manufactured products to be placed on the market and to be put into service have to be manufactured in accordance with the provisions of these new regulations.

Provincial Directorates of Industry and Technology: These 81 provincial directorate carry out inspections, market surveillance and verifications on measuring instruments. They also conduct inspections of authorized verification services. They play a central role in monitoring compliance at the provincial level.

Additional Key Organizations:

TÜBİTAK National Metrology Institute (UME): Located in Gebze, Kocaeli, UME is Türkiye's national metrology institute. It is responsible for developing and maintaining national measurement standards, as well as ensuring their accuracy and traceability to international standards. Although primarily focused on scientific and industrial metrology, UME contributes to legal metrology by providing technical support.

Turkish Standards Institution (TSE): Located in Ankara and affiliated with the Ministry of Industry and Technology, TSE is responsible for all kinds of standard preparation and calibration activities. Additionally, it establishes national standards for measuring instruments and supports alignment in non-harmonized areas of metrology, although it does not directly enforce legal metrology.

Turkish Accreditation Agency (TÜRKAK): TÜRKAK, which is affiliated with the Ministry of Foreign Affairs of Türkiye, accredits testing, calibration, and verification laboratories that perform services related to measuring instruments. This agency ensures these processes align with internationally recognized standards.

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International Memberships

Türkiye is one of the founder members of the International Bureau of Weights and Measures (BIPM), with Metre Convention signed in 1875. (since its foundation in 1875 as a former part of the Ottoman Empire) and is a full member of both the International Organization of Legal Metrology (OIML) since 2005 and gained full membership status in WELMEC (European Cooperation in Legal Metrology) in 2020, having previously held observer status since 2005.

2. Equipment Subject to National Controls with Verification Periods

The scope of regulation in relation to measuring instruments is given by Law no. 3516 Measurements and Adjustments. Legally controlled measuring instruments are generally subject to type approval, initial verification and mandatory subsequent verification (periodic and after repair) unless otherwise stated. Conformity assessment activities for implementing the EU's new approach directives are governed by Act No. 2014/32/AB (Measuring Instruments Directive) and Act No. 2014/31/AB (Non-Automatic Weighing Instruments Directive), which are transposed into Turkish law. All the categories of measuring instruments under the EU Directive MID and NAWID are harmonised. The assigns, audits and inspections of notified bodies within the scope of MID and NAWI are carried out by MIT. In Türkiye, four notified bodies were assigned by DG for Metrology and Industrial Products Safety in the field of NAWI and MID. An overview of Notified Bodies and their field of expertise can be found in the Nando database.

On the other hand, For measuring instruments that do not under the scope of MID and NAWI, conformity assessments follow the National Type Approval Regulation. National Type approval certificates on the national level can be issued only by MIT. With respect to nationally regulated measuring instruments, not covered by the MID or NAWI directive, testing institutes (Notified bodies and Turkish Standards Institute) have been carry out the testing activities. Scope in non-regulated area is determined by law no. 3516. A measuring instrument can be included or excluded from the scope of the law depending on whether there is a need.

MIT also carries out metrological control of prepackages under the EU old-approach directives (Directive 76/211/EEC, Directive 2007/45/EEC, Directive 75/107/EEC).

Additionally, The Directorate General for Metrology and Industrial Products Safety is responsible for issuing type approvals for digital and analog tachographs, as well as certifying tachograph services as per the Regulation on Recording Equipment Used in International Road Transport (3821/85), effective since May 21, 2010.

The mandatory re-verification period is every 10 years for electrical energy meters, water meters, and gas meters; annually for speed meters, exhaust gas analyzers, and taximeters; and every 2 years for all other instruments. Also, reverification is required

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where an instrument has been repaired or adjusted, normally evident by breaking the official security seal.

In Türkiye, subsequent verifications of measuring instruments is conducted by three different bodies:

1. Ministry Provincial Directorates: These directorates are responsible for the verification of utility meters (electric, water, and gas meters).
2. Single Competent Authority (Turkish Standards Institute): This body handles verification for specific measuring instruments, such as those used for measuring liquids other than water, radar equipment for the measurement of the speed of road vehicles, certain weighing instruments.
3. Authorized Verification Services (AVS): For other measuring instruments such as taximeters, heat meters, tachographs, exhaust gas analysers.

For subsequent verifications, users of regulated measuring instruments are required to pay a verification fee, which is published annually in the Official Gazette at the end of each year.

DG for Metrology and Industrial Products Safety performs market surveillance activities together with the inspectors employed at the 81 provincial directorates in the field of legal metrology, pre-packaged products. Market surveillance and inspection are performed as proactive and reactive inspections. Most of the inspections are realized through the annual programmes. In these programmes, target fields/products are determined taking the following issues into account: previous results of the MS activities, complaints, press reviews, country of origin, accidents.