Competence of the Slovak Institute of Metrology

The **Slovak Institute of Metrology** (SMU) is the national metrological institute of Slovakia. As of such it was established by the national law on metrology no. 157/2018 Z.z. Based on this law SMU ensures the storage, maintenance and international comparison of national standards and their scales, while in cooperation with other entities it transmits the values of set standards to specific entities own standards and other measuring instruments used in the national economy. SMU provides metrological services in the regulated area (verification of specified measuring instruments and official measurements) as well as in the unregulated area (calibrations, measurements).

SMU under the registration no.: 1781, provides its services according to the law no. č. 56/2018 Z. z. on the conformity assessment of products and heir placing on the market.

Furthermore SMU performs other activities that are directly related to the field of metrology for example like the approval of type of specified measuring instruments, issuing of documents on competence in the field of metrology, checking of compliance with authorization requirements and authorization requirements by registrants, providing of training in metrology, quality management systems and testing.

SMU contributes to the unified and correct measurement system within Slovakia. It realizes its activities on the highest professional level that reflects the position of SMU as a national metrological institute. In order to provide long lasting quality of provided services, annual checks of the competences in specific fields are performed on national and international level.

SMU is a signatory of a prestigious international convention on the mutual recognition of national standards and calibration and measurement certificates issued by national metrology institutes, abbreviated **CIPM MRA**. Based on the results from international comparison measurements and based on the review of the quality management system the calibration and measurements capabilities (CMC) are listed in a publicly available database, that is accepted worldwide by national metrological institutes and accreditation bodies represented in ILAC. SMU has currently almost 400 entries within the CMC database that are based on its provided services. The list of CMCs can be found on the following link: https://kcdb.bipm.org/.

SMU has a certified quality management system that follows the standard ISO 9001:2015. This system includes all of the activities that are conducted by SMU as a national metrological institute (https://www.smu.sk/certifikaty-smu/). Providing calibration services are in line with the standard ISO/IEC 17025:2017. In the case of reference materials the standard ISO 17034:2016 is followed.

The quality of calibration services is ensured by international verification within the framework of the **CIPM MRA** agreement. Therefore, since 2002, the quality management system of the SMU has been regularly assessed by the members of the Technical Committee for Quality (TC-Q) of the regional metrological organization Euramet, e.V. Since 2009, technical experts from foreign national metrology institutes have been assessing individual calibration services by means of so-called peer reviews (EURAMET TC-Q PROJECT No. 1109 Peer reviews of QMSs), their positive evaluation ensures the up to date state of entries within the CMC database. The current trend moving from accreditation towards a cross peer reviews between the national metrology institutions is evident worldwide. This approach provides a more sustainable system for the future while maintaining the same level of customer confidence in the metrology services provided.

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