

Type approval of densimeters, volume-measuring devices for laboratory purposes and dairy-measuring devices

A type approval is possibly necessary for:

Volume-measuring devices for laboratory purposes according to Annex 12 of the Verification Ordinance (volumetric flasks, measuring cylinders, burettes for liquids, burettes and meter tubes for gases, micro-azotometers, piston-operated burettes, piston-operated pipettes, dispensers and dilutors)

Densimeters and content meters according to Annex 13 of the Verification Ordinance (hydrometers, pycnometers, hydrostatic balances, sinkers und oscillation-type densimeters for liquids)

Measuring devices for dairy examinations according to Annex 17 of the Verification Ordinance (butyrometers, volume-measuring devices for the butyrometric fat determination as well as density hydrometers for milk, skim milk and buttermilk serum)

Volume-measuring devices for laboratory purposes are, however, generally approved for the issuing of a conformity certificate; hydrometers, pycnometers, hydrostatic balances, sinkers and devices for dairy examinations are generally approved for national verification. **These groups of measuring devices therefore only require a type approval in special cases, for example when being specially designed.**

The oscillation-type densimeters for liquids need an approval for national verification. Alcoholometers and density hydrometers for alcohol can be approved for an EU initial verification.

The Working Group “Properties of Liquids” work on the approvals for these both groups of measuring devices.¹

Inquiries can be made to:

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The costs are charged according to the Regulations governing charges for approvals granted by PTB (<http://www.ptb.de/de/org/z/z14/zulkv.pdf>) and calculated in respect to the work done being necessary for the approval tests, the compilation of approval documents and the documentation of the approval.

Please find additional information in:

Heinz Fehlauer: Flüssigkeitseigenschaften, PTB-Mitteilungen 114 (2004), Heft 2, p. 143/144.

This issue of the PTB-Mitteilungen focuses on “Legal Metrology”. It is written in German.

¹ The Working Group „Form and Wavefront Metrology“ work on the refractometers mentioned as well in Annex 13 of the Verification Ordinance. Please contact this Working Group for further information (<http://www.ptb.de/en/org/4/42/421/refr.htm>).