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STN	**Hydrometria** **Kalibrácia hydrometrických prístrojov v priamych otvorených nádržiach**	**STN** **ISO 3455** 75 1305

Hydrometry
Calibration of current-meters in straight open tanks

Hydrométrie
Étalonnage des moulinets en bassins découverts rectilignes

Táto slovenská technická norma obsahuje anglickú verziu medzinárodnej normy ISO 3455: 2021 a má postavenie oficiálnej verzie.

This Slovak standard includes the Intenational standard English version of ISO 3455: 2021 and has the status of the official version.

Nahradenie predchádzajúcich slovenských technických noriem

Táto slovenská technická norma nahrádza STN ISO 3455 z februára 2010 v celom rozsahu.

134844

Úrad pre normalizáciu, metrológiu a skúšobníctvo Slovenskej republiky, 2022
Slovenská technická norma a technická normalizačná informácia je chránená zákonom č. 60/2018 Z. z. o technickej normalizácii.

Anotácia

Tento dokument špecifikuje metódu kalibrácie hydrometrických prístrojov mechanického, elektromagnetického a akustického typu, ktoré sa používajú na meranie bodových rýchlostí prúdiacej vody. Metóda vyžaduje ťahanie prístroja cez stojacu vodu v priamej otvorenej nádrži. Zahŕňa merací prístroj, kalibračný postup, spôsob prezentovania výsledkov a neistoty spojené s metódou.

Národný predhovor

Normatívne referenčné dokumenty

Nasledujúce dokumenty, celé alebo ich časti, sú v tomto dokumente normatívnymi odkazmi a sú nevyhnutné pri jeho používaní. Pri datovaných odkazoch sa použije len citované vydanie. Pri nedatovaných odkazoch sa použije najnovšie vydanie citovaného dokumentu (vrátane všetkých zmien).

POZNÁMKA 1. – Ak bola medzinárodná publikácia zmenená spoločnými modifikáciami, čo je indikované označením (mod), použije sa príslušná EN/HD.

POZNÁMKA 2. – Aktuálne informácie o platných a zrušených STN možno získať na webovom sídle www.unms.sk.

ISO 772 prijatá ako STN EN ISO 772 Hydrometria. Slovník a značky (ISO 772) (75 0100)

ISO 2537 prijatá ako STN ISO 2537 Hydrometria. Hydrometrické vrtule s rotačným prvkom (75 1304)

ISO/IEC Guide 98-3 dosiaľ nezavedená

Vypracovanie slovenskej technickej normy

Spracovateľ: Úrad pre normalizáciu, metrológiu a skúšobníctvo SR, Bratislava

Technická komisia: TK 64 Hydrológia a meteorológia

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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 113, *Hydrometry*, Subcommittee SC 5, *Instruments, equipment and data management*.

This third edition cancels and replaces the second edition (ISO 3455:2007), which has been technically revised.

The main changes compared to the previous editions are as follows:

— a subclause for calibration of acoustic current-meters for point velocity measurement has been added;

— clauses referring to outdated tracking systems like track systems using tooth belts have been removed;

— clauses referring to outdated technique for data acquisition like strip chart recorder or magnetic tapes have been removed;

— the clause for computerized data acquisition and processing system has been removed;

— the clause discussing the Epper effect has been removed.

Any feedback or questions on this document should be directed to the user’s national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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INTERNATIONAL STANDARD ISO 3455:2021(E)

Hydrometry — Calibration of current-meters in straight open tanks

1 Scope

This document specifies a calibration method for mechanical type, electromagnetic type and acoustic type hydrometric current-meters used for point velocity measurement of flowing water. The method requires towing the instrument through still water in a straight open tank. It includes measuring apparatus, the calibration procedure, the method of presenting the results and the uncertainties associated with the method.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 772, *Hydrometry — Vocabulary and symbols*

ISO 2537, *Hydrometry — Rotating-element current-meters*

ISO/IEC Guide 98-3*Uncertainty of measurement — Part 3: Guide to the expression of uncertainty in measurement (GUM:1995)*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN

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