ISO/FDIS 4064-3<del>:2024(en)</del> ISO/TC 30/SC 7 Fifth edition Date: 2024-07-1 Secretariat: BS Date: 2024-x Water meters for cold potable water and hot water — Part 3: Test report format Compteurs d'eau potable froide et d'eau chaude Partie 3: Format du rapport d'essais<u>d'essai</u> FDIS stage

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## ISO/FDIS 4064-3:2024(<u>Een</u>)

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## ISO/FDIS 4064-3:2024(en)

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#### ISO/FDIS 4064-3:2024(en)

#### **Foreword**

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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 document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see <a href="www.iso.org/directives">www.iso.org/directives</a>).

ISO draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at www.iso.org/patents. ISO shall not be held responsible for identifying any or all such patent rights.

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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 nlwww.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 30, Measurement of fluid flow in closed conduits, Subcommittee SC 7, Volume methods including water meters and OIML Technical Subcommittee TC 8/SC 5 Water meters, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 92, Test methods and equipment for cold water meters, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This fifth edition of ISO 4064-3 cancels and replaces the fourth edition (ISO 4064-3;2014), which has been technically revised.

This edition of ISO 4064-3 is identical to the corresponding edition of OIML R 49-3 and OIML R49-4, which will be submitted for approval for final publication by the International Committee of Legal Metrology at its 59th meeting in October 2024. It will be submitted to the International Conference on Legal Metrology in 2025 for formal sanction.

A list of all parts in the ISO 4064 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. complete listing of these bodies can be found at <a href="https://www.iso.org/members.html">www.iso.org/members.html</a> <a href="https://www.iso.org/members.html">www.iso.or

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#### ISO/FDIS 4064-3:2024(Een)

#### Introduction

Implementation of this test report format is informative with regard to the implementation of  $\underline{ISO}$  4064- $\underline{1:2024}$ :— $\underline{IOIML}$  R 49-1: $\underline{2024}$ :— $\underline{IOIML}$  R 49-1: $\underline{2024}$ :— $\underline{IOIML}$  R 49-2: $\underline{2024}$ :— $\underline{IOIML}$ 

Clause 4 Clause 4 shows the required format of a type evaluation report for a complete or combined water meter.

A type evaluation report for a separable calculator (including indicating device) or a measurement transducer (including flow or volume sensor) requires a similar format. However, some modifications to the tables may be required because a large number of variations in the design of these separable units is possible.

Some examples of tables for presenting the test results for separable units are shown in <a href="Clause 5">Clause 5</a> for initial verifications. These tables can also be adapted for type evaluation reports.

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ISO 4064-2:2014, Water meters for cold potable water and hot water — Part 2: Test methods

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# Water meters for cold potable water and hot water-

# Part 3: Test report format

#### 1 Scope

This document specifies a test report format to be used in conjunction with ISO 4064-1:2024:—IOIML R 49-1:2024:— and ISO 4064-2:2024:—IOIML R 49-2:2024:— for water meters for cold potable water and hot water.

#### 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.

<std>ISO 4064 1:2024, |OIML R 49 1:2024, Water meters for cold potable water and hot water Part | Metrological and technical requirements / std>

<std>ISO 4064 2:2024, |OIML R 49 2:2024, Water meters for cold potable water and hot water — Part 2: Tes methods</std>

ISO 4064-1:—, Water meters for cold potable water and hot water — Part 1: Metrological and technical requirements

ISO 4064-2:—, Water meters for cold potable water and hot water — Part 2: Test methods

#### 3 Terms, definitions, symbols, and abbreviated terms

For the purposes of this document, the terms and definitions given in ISO 4064-1 OIML R 49-1 apply.

Some symbols and abbreviated terms used in the tables are as follows.

+	pass	I
	fail	Ī
n/a	not applicable	Ī
EUT	equipment under test	Ī
Н	horizontal	Ī
MAP	maximum admissible pressure	Ī
MAT	maximum admissible temperature	Ī
MPE	maximum permissible error	Ī
V	vertical	Ī
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## 4 Type evaluation report

#### 4.1 General

For each examination and test the checklist shall be completed according to this example:

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×		Pass
	×	Fail
n/a	n/a	Not applicable

## 4.2 Information concerning the type

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$Q_3$	m <sup>3</sup> /h	
$Q_4$	m <sup>3</sup> /h	
$Q_3/Q_1$		
for c	combination meters	

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m³/h

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Connection type (flange, screw thread,		J //,	Formatted
concentric manifold):		I ///	Formatted
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Orientation:	<del></del>	Formatted	
Other relevant information:		Formatted	
Installation details (electrical):		Formatted	
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Wiring instructions:		Formatted	
Mounting arrangement:		Formatted Table	
Orientation limitations:		Formatted	
Down gunnler		Formatted	
Power supply:		Formatted	
Type (battery, mains AC, mains DC):		Formatted	
$U_{ m max}$ :	V CA	Formatted Table	(
$U_{ m min}$ :	<u>iTe</u> h Standards	Formatted	
Frequency:	Hz	Formatted	
	nttps://standards.iteh	Formatted	
If a family of meters is submitted, the details	in this subclause are to be given for each size of water meter.	Formatted	
4.2.5 Separable calculator (including in	dicating device)	Formatted	
Manufacturer:		Formatted	
Model number:	ISO/FDIS 4064-3	Formatted Table	<u> </u>
	log/standards/iso/e13e98e8-6333-4715-b418	Formatted 7/iso_fdis_4064_3	(
$Q_1$ m <sup>3</sup> /h		Formatted	[
$Q_2$ $m^3/h$		Formatted	(
$Q_3$ $m^3/h$		Formatted	
Q <sub>4</sub> m <sup>3</sup> /h		Formatted	
		Formatted	
$Q_3/Q_1$ for combination meters		Formatted	
for combination meters		Formatted	
		Formatted	
	2.0	Formatted	
Q <sub>x1</sub>	m³/h	Formatted	
Q <sub>x2</sub>	m³/h	Formatted	
Measuring principle:		Formatted Table	
Accuracy class:		Formatted	(
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Temperature class:			Formatted	(
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Environmental class:		———— <b>*</b> //	Formatted	[
Electromagnetic environment:			Formatted	[
Maximum admissible temperature:	°C		Formatted	
Maximum admissible pressure:	MPa ( bar)	//	Formatted	
Orientation limitation:		//	Formatted	
Pressure loss class:		-//	Formatted	<u></u>
Reverse flow:		1//	Formatted	<u>[</u>
<u>a)</u> Meters designed to measure reverse			Formatted	[
flow		Ц /	Formatted	[
b) b) Meters not designed to measure		//	Commented [eXtyles18]: Not found, but similar	[
reverse flow		///	Commented [eXtyles19]: No section matches the in-te	$\equiv$
c) e) Meters which prevent reverse flow		////	Formatted Formatted	<u>[</u>
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Software version (if applicable):	*T-1-641		Formatted	<u> </u>
EUT testing requirements (ISO 4064-2:2024 :	OIML R 49-2 <del>:2024.</del> :—. 8.1.8h:	aros	Formatted	[
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Category:		Is.iten.	Formatted	[
Case			Formatted	(
Maximum relative error specified by the manufac	Document Pr	'eview /	Formatted	[
	turer.		Formatted Table	(
Lower flow rate zone, $Q_1 \le Q < Q_2$ :	%		Formatted	(
Upper flow rate zone, $Q_2 \le Q \le Q_4$ :	%80/FDIS 4064-	2 47151 410	Formatted	[
https://standards.iten.ai/catalog	standards/150/e15e98e8-055	0-4/13-0410-05/0	Formatted C/ISO-IGIS-4004-3	(
Installation details (electrical):		* //	Formatted Table	(
Wiring instructions:			Formatted	(
Mounting arrangement:		//	Formatted	
Orientation limitations:		//	Formatted	(
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Power supply:		1/	Formatted Table	
Type (battery, mains AC, mains DC):			Formatted	[
U <sub>max</sub> :			Formatted	<u>.</u>
	v		Formatted	<u></u>
Frequency:	v Hz		Formatted	<u></u>
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Approval number(s) of compatible measurement transducer(s) (including flow		[* //	Formatted	
or volume sensor):			Formatted	
			Formatted	<u>[</u>
		ı <i>//</i> /	Formatted	<u>[</u>
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4.2.6 Separable measurement transduce	r (including flow or volume sensor)	Formatted
		Formatted
Manufacturer:		Formatted Table
Model number:		Formatted
Type details:		Formatted
$Q_1$ $m^3/h$		Formatted
$Q_2$ m <sup>3</sup> /h		Formatted
Q <sub>3</sub> m <sup>3</sup> /h		Formatted
$Q_4$ $m^3/h$		Formatted
$Q_3/Q_1$		Formatted
for combination meters		Formatted
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$Q_{x1}$	m³/h	Formatted
$Q_{ m x2}$	m <sup>3</sup> /h	Formatted Table
Measuring principle:		Formatted
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Maximum admissible temperature:	Document Pro	Formatted
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Maximum admissible pressure:	MPa ( bar)	Commented [eXtyles20]: Not found, but similar  Commented [eXtyles21]: No section matches the in-t
Orientation limitation:	<u>ISO/</u> FDIS 4064-3	Formatted
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Category:		Formatted
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Maximum relative error specified by the man	ufacturar.	Formatted Table
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Lower flow rate zone, $Q_1 \le Q < -Q_2$ :	%	Formatted
Upper flow rate zone, $Q_2 \le Q \le Q_4$ :	%	Formatted
		Formatted Table
Installation details (mechanical):		Formatted
Connection type (flange, screw thread, cond	centric manifold):	Formatted
Minimum straight length of inlet pipe:	mm	Formatted
Minimum straight length of outlet pipe:	mm	Formatted
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