		V 3112

OIML Member State	**OIML Certificate No.**
Czech Republic	R49/2013-A-CZ1-25.03

OIML CERTIFICATE ISSUED UNDER SCHEME A

OIML Issuing Authority

Name: Czech Metrology Institute
Address: Okružní 31, 638 00 Brno, Czech Republic

Person responsible: Jan Kalandra

Applicant

Name: Wenling Younio Water Meter Co., Ltd.
Address: No. 1039 Jiulong Street, 317500 Chengxi, Wenling, Zhejiang, CN

Manufacturer

Name: Wenling Younio Water Meter Co., Ltd.
Address: No. 1039 Jiulong Street, 317500 Chengxi, Wenling, Zhejiang, CN

Identification of the certified type *(the detailed characteristics will be defined in the additional pages)*

water meter - Woltman, dry dial
LXLC-xxE4a, Temperature class: T30 and T50

Designation of the module *(if applicable)*

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This OIML Certificate attests the conformity of the above identified type (represented by the sample(s) identified in the OIML type evaluation report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):

OIML R 49 Edition (year): 2013

For accuracy class (if applicable): 2

Český metrologický institut

-3-

This OIML Certificate relates only to metrological and technical characteristics of the type of measuring instrument covered by the relevant OIML Recommendation identified above.

This OIML Certificate does not bestow any form of legal international approval.

The conformity was established by the results of tests and examinations provided in the associated OIML type evaluation report:
No. 0511-ER-V087-25 dated 3 October 2025 that includes 48 pages including annex 1

The technical documentation relating to the identified type is contained in documentation file:

0511-UL-V087-25

OIML Certificate History

Revision No.	Date	Description of the modification
-	15 October 2025	Issuing certificate

The OIML Issuing Authority
Ing. František Staněk, PhD.
Deputy Head of Certification Body

Date: 15 October 2025

Important note: Apart from the mention of the Certificate's reference number and the name of the OIML Member State in which the Certificate is issued, partial quotation of the Certificate and of the associated OIML type evaluation report(s) is not permitted, although either may be reproduced in full.

Measuring system description

The water meters type LXLC-xxE4a are designed to measure, memorise and display the volume at metering conditions of water passing through the measurement transducer.

The water meters type LXLC-xxE4A are horizontal Woltman meters. The water meters type LXLC-XXE4A consist of a cast iron body with connecting flanges and a measuring unit and a dry mechanical indicating device. The measuring unit is connected to the body by a flange cover which is fixed by screws and sealed by a rubber o-ring.

The measuring unit consists of a plastic holder with bushes for an impeller and a straightener, an impeller with a stainless steel shaft, a transmission with magnetic coupling to an indicating device, a flange cover made of iron with an adjusting screw, a plastic register cover fixed by a pin, a dry mechanical indicating device and an upper plastic lid.

The water meters type LXLC-xxE4A are equipped with a dry indicating device. The reading consists of numbered rollers with six drums and three rotary pointers. The meters are equipped with a star wheel with six arms. The adjustment is realized by adjusting screw. The access to the adjusting screw is protected by sealed plastic register cover.

The water meters type LXLC-xxE4A can be installed to operate in horizontal position only with the indicating device positioned at the top.

Marking and inscriptions

The water meters types type LXLC-xxE4A shall be clearly and indelibly marked with the following information:

- Unit of measurement (m^3)
- Numerical value Q_3 in m^3/h (Q_3 ×.×) and the ratio Q_3 / Q
- OIML certificate of conformity number or/and type approval sign according to national regulations
- Name of trademark of the manufacturer
- Year of manufacture, two last digits of the year of manufacture, or the month and year of manufacture
- Serial number (as near as possible to the indicating device)
- Direction of flow, by means of an arrow (shown on both sides of the body or on one side only provided the direction of flow arrow is easily visible under all circumstances)
- Maximum admissible pressure (MAP ××)
- Letter H (horizontal position with the indication device positioned on the top)
- The temperature class (T××)
- The pressure loss class (Δp ××)
- The installation sensitivity class (U× D×)

These markings shall comply with the requirements of OIML R 49 and shall be visible without dismantling the water meter after the instrument has been placed on the market or put into use.

Characteristics

Nominal diameter:	50	65	80	100	125	150	200
Q_1 [m^3/h]:	flowrates are shown in Table *flowrates*						
Q_2 [m^3/h]:							
Q_3 [m^3/h]:							
Q_4 [m^3/h]:							
Q_3/Q_1:	100; 80; 63; 50; 40						
Q_2/Q_1:	1.6						
Q_4/Q_3:	1.25						
Measuring principle:	Woltman						

Accuracy class:	2						
Temperature class:	T30 or T50						
Water pressure class:	MAP10						
Pressure loss class:	*ΔP* 63						
Maximum admissible temperature [°C]:	50						
Maximum admissible pressure [MPa]:	1.0						
Orientation limitation:	horizontal with the indicating device at the top						
Indicating range [m³]:	999 999						9 999 999
Resolution of the indicating device [dm³]:	0.5						5
Category:	turbine water meters						
Case:	A						
Connection type:	flange						
Flow profile sensitivity classes:	U10 D5						
Flow conditioner (details if required):	No						
Reverse flow:	Not designed to measure						
Length [mm]:	200	200	225	250	250	300	350

Basic technical data of water meters type LXLC - *Flowrates*

Manufacturer:	Wenling Younio Water Meter Co., Ltd.				
Model number:	LXLC-xxE4a				
Nominal diameter:	50				
Q_1 [m³/h]:	0.630	0.788	1.000	1.260	1.575
Q_2 [m³/h]:	1.008	1.260	1.600	2.016	2.520
Q_3 [m³/h]:	63.0	63.0	63.0	63.0	63.0
Q_4 [m³/h]:	78.75	78.75	78.75	78.75	78.75
Q_3/Q_1:	100	80	63	50	40
Nominal diameter:	65				
Q_1 [m³/h]:	0.630	0.788	1.000	1.260	1.575
Q_2 [m³/h]:	1.008	1.260	1.600	2.016	2.520
Q_3 [m³/h]:	63.00	63.00	63.00	63.00	63.00
Q_4 [m³/h]:	78.75	78.75	78.75	78.75	78.75
Q_3/Q_1:	100	80	63	50	40
Nominal diameter:	80				
Q_1 [m³/h]:	1.000	1.250	1.587	2.000	2.500
Q_2 [m³/h]:	1.600	2.000	2.540	3.200	4.000
Q_3 [m³/h]:	100	100	100	100	100
Q_4 [m³/h]:	125	125	125	125	125
Q_3/Q_1:	100	80	63	50	40
Nominal diameter:	100				
Q_1 [m³/h]:	1.600	2.000	2.540	3.200	4.000

Q_2 [m³/h]:	2.560	3.200	4.063	5.120	6.400
Q_3 [m³/h]:	160.00	160.00	160.00	160.00	160.00
Q_4 [m³/h]:	200.00	200.00	200.00	200.00	200.00
Q_3/Q_1:	100	80	63	50	40
Nominal diameter:	125				
Q_1 [m³/h]:	2.500	3.125	3.968	5.000	6.250
Q_2 [m³/h]:	4.000	5.000	6.349	8.000	10.000
Q_3 [m³/h]:	250.00	250.00	250.00	250.00	250.00
Q_4 [m³/h]:	312.50	312.50	312.50	312.50	312.50
Q_3/Q_1:	100	80	63	50	40
Nominal diameter:	150				
Q_1 [m³/h]:	4.000	5.000	6.349	8.000	10.000
Q_2 [m³/h]:	6.400	8.000	10.159	12.800	16.000
Q_3 [m³/h]:	400.00	400.00	400.00	400.00	400.00
Q_4 [m³/h]:	500.00	500.00	500.00	500.00	500.00
Q_3/Q_1:	100	80	63	50	40
Nominal diameter:	200				
Q_1 [m³/h]:	6.300	7.875	10.000	12.600	15.750
Q_2 [m³/h]:	10.080	12.600	16.000	20.160	25.200
Q_3 [m³/h]:	630.00	630.00	630.00	630.00	630.00
Q_4 [m³/h]:	787.50	787.50	787.50	787.50	787.50
Q_3/Q_1:	100	80	63	50	40

Securing components and verification marks

One of the screws connecting the water meter body and the flange cover has to be sealed (Figure 1). The removable indicating device has to be protected against manipulation by a seal fixing a pin near the connection of the upper plastic lid and the plastic register cover (Figure 1). The seals are realized by a wire with a lead or plastic seal.

Figure 1: The water meter type LXLC-XXE4A – view and sealing: