



OIML Member State
SLOVAKIA

OIML Certificate No.
R49/2013-A-SK1-25.10 Rev. 1

OIML CERTIFICATE ISSUED UNDER SCHEME A

OIML Issuing Authority

Name: **Slovak Legal Metrology (SLM)**
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Product Certification Body
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Applicant

Name: **Qingdao Comcore Technologies Co., Ltd.**
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Park, No. 1 Keyuanweiyi Road, Laoshan District,
Qingdao City, Shandong Province, China

Manufacturer

Name: **Qingdao Comcore Technologies Co., Ltd.**
Address: 8th Floor, Block A, Qingdao International Innovation
Park, No. 1 Keyuanweiyi Road, Laoshan District,
Qingdao City, Shandong Province, China

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

Water meter type EUW300

Designation of the module *(if applicable)*

Ultrasonic water meters with electronic indication device

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: 2



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R49/2013-A-SK1-25.10 Rev. 1**

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. 2026/ER062/SK1 dated 20th January 2026 that includes 16 pages.

The technical documentation relating to the identified type is contained in documentation file name: „Technical documentation file Qingdao_EUW300_01“ dated 20th January 2026.

OIML Certificate History

Revision No.	Date	Description of the modification
0	30 th April 2025	Certificate first issued
1	20 th January 2026	Updated: - table 3 Technical parameters: U10D5 to U0D0

Identification, signature and stamp

The OIML Issuing Authority

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Dusan Šmigura

Date: 20th January 2026



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.

1. Designation

The ultrasonic water meter type **EUW300** is designed to measure, memorise and display the volume of water passing through the measurement transducer at metering conditions. The water meter is intended for the measurement of volume of clean water in residential, commercial and light industrial use.

The water meter type EUW300 is compact ultrasonic water meter with electronic indication device. The measurement is based on ultrasonic bidirectional transit-time principle. The water meter type EUW300 can be installed to operate in horizontal or vertical positions and is not designed to measure the reverse flow.

2. Description

2.1 Parts of the water meter type EUW300:

Essential parts:

Flow sensor:

- the hydraulic plastic body with inlet and outlet threaded connections;
- the inner plastic tube placed in the body;
- two mirrors set to create an ultrasound path in the flow meter body;
- two ultrasonic transducers at the upstream and downstream of the measurement channel (pipe section) to transmit and receive ultrasonic signals.

Calculator and indication device:

- plastic counter housing with meter indication device molded together with flow sensor;
- PCB of the measuring module;
- the PCB board;
- the electronic LCD display with 9 digits and indication range of 999999,999 m³;
The sub-multiples of a cubic meter after decimal point are marked on the LCD display with a frame;
- two non-replaceable lithium batteries, with a maximum lifetime of more than 10 years;
- optical port for the display scrolling by magnet.

Non-essential parts:

- IoT including LoRa/LoRaWAN/NB-IoT/LPWAN.

2.2 Metrological functions

- measuring, memorizing and displaying the volume of water passing through the water meter.

2.3 Operation and presentation of legal data

To switch the display menu must be used magnet (touch the lower right corner with a magnet).

The LCD display in normal mode:

- a) the total measured volume (m³);
- b) flow rate (m³/h);

The LCD display in testing mode:

- a) the measured volume (L);
- b) flow rate (L/h);



The LCD display include the following display screens:

- a) test display – all segments on;
- b) test display – all segments off;
- c) firmware version;
- d) checksum.

2.4 Software specification

Software versions	Checksum	Remarks
V1.1	7762678	DN15
V1.0	5065031	DN20 and DN25

The software version is indicated on the display in the form: 11240922 or 10240920

The checksum is indicated on the display in the form: 7762678 or 5065031

2.5 Accountable alarms

During the measuring process the calculator and indication device detects automatically if a fault condition occurs and eventually stops the measurement reporting an alarm indication on the display. See user manual issued by the manufacturer.

3. Technical and metrological data

Type /model	EUW300			
Accuracy class	-	2		
Nominal diameter DN	mm	15	20	25
Permanent flowrate Q ₃	m ³ /h	2,5	4	6,3
Minimum flowrate Q ₁	m ³ /h	0,00625	0,01	0,01575
Transitional flowrate Q ₂	m ³ /h	0,01	0,016	0,0252
Overload flowrate Q ₄	m ³ /h	3,125	5	7,875
Ratio Q ₃ /Q ₁	-	400		
Ratio Q ₂ /Q ₁	-	1,6		
Connection thread	-	G ¾	G 1	G1 ¼
Construction length L	mm	110	130	150
Installation position	-	H/V		
Water temperature range	°C	0 to 50		
Meter temperature class	-	T30, T50		
Maximum admissible pressure MAP	bar	16		
Pressure loss class Δp	bar	0,40 40	0,25 25	0,25 25
Maximum permissible error in upper flowrates range Q ₂ ≤ Q ≤ Q ₄	%	± 2 (at θ ≤ 30°C) ± 3 (at θ > 30°C)		
Maximum permissible error in lower flowrates ranges Q ₁ ≤ Q < Q ₂	%	± 5		
Scale interval	m ³	0,001		

Scale interval in testing mode	L	0,001
Capacity of calculator	m ³	999999,999
Capacity of calculator in testing mode	L	999999,999
Mechanical class	-	M1
Climatic class	°C	-25 to +55
Electromagnetic class	-	E2
Environmental classification	-	O
Flow profile sensitivity class	-	U0D0
Battery	-	Non-replaceable, li-batteries 3,6 V, lifetime more than 10 years

4. Marking and inscriptions

The following data shall be marked on the water meter:

- a) name or trademark of the manufacturer;
- b) type name of the water meter;
- c) unit of measurement m³;
- d) year of manufacture, the last two digits of the year of manufacture, or the month and year of manufacture;
- e) serial number (as near as possible to the indicating device);
- f) 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);
- g) flowrate Q₃ and ratio Q₃/Q₁ indicated as (R) followed by the ratio value;
- h) maximum admissible pressure (MAP);
- i) temperature class where it differs from T30;
- j) letter H, if the meter can only be operated in the horizontal position, letter V, if the meter can only be operated in the vertical position;
- k) pressure loss class where it differs from Δp 63 (Δp);
- l) the latest date by which the meter shall be replaced (given in the check mode sequence in the display);
- m) environmental classification (can be given on a document supplied separately);
- n) electromagnetic environmental class (can be given on a document supplied separately);
- o) type approval sign according to national regulations.

4.1 Designation of trademark on the water meter

Manufacturer can use following trademark on its water meters:



5. Security measures

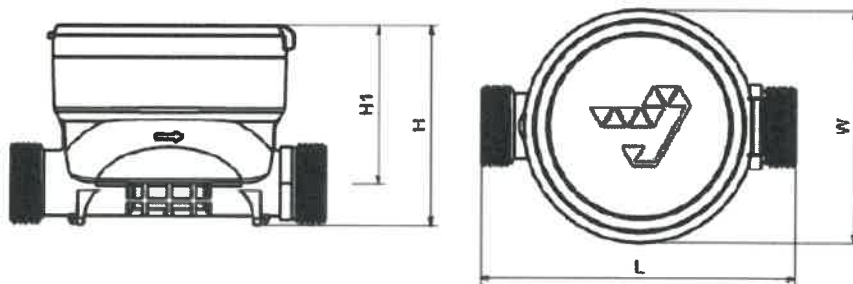
The water meter shall be protected against unauthorised manipulation and opening by:

- 4 snap-fits on the inner side wall of the lower shell, and correspondingly, 4 snap-fit holes are provided on the inner side of the upper shell. After aligning and installing the clips into the holes, the lower shell and the upper shell will be tightly joined.
- Additionally, the connection between the lower shell and the upper shell features an embedded structure, leaving no gaps where tools (such as screwdrivers or blades) could be inserted. As a result, the water meter cannot be disassembled without destructive force.
- Additionally, structural adhesive is applied into the grooves of the upper shell at the junction between the upper and lower shells to further enhance bonding strength (Fig.: 3).

6. Figures



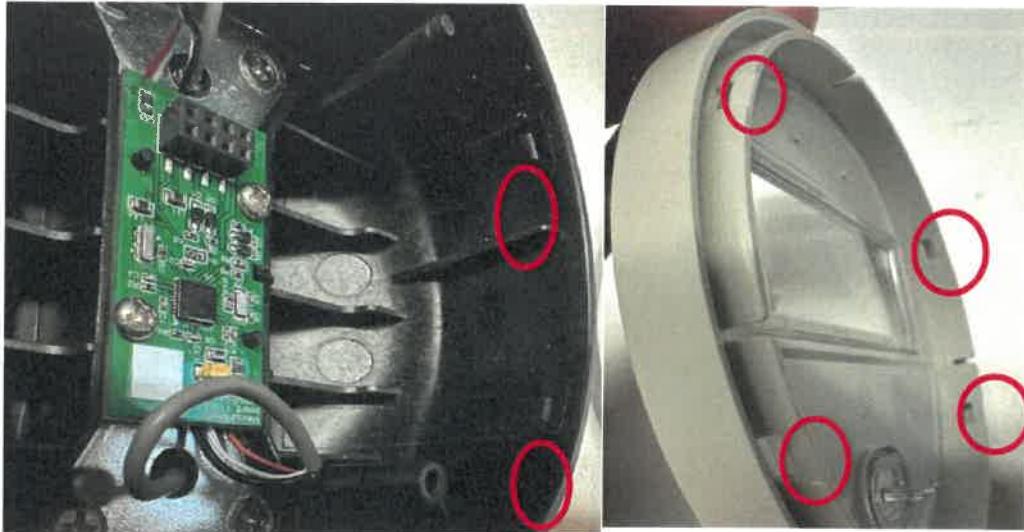
Fig 1: Illustrative views of the water meter type EUW300



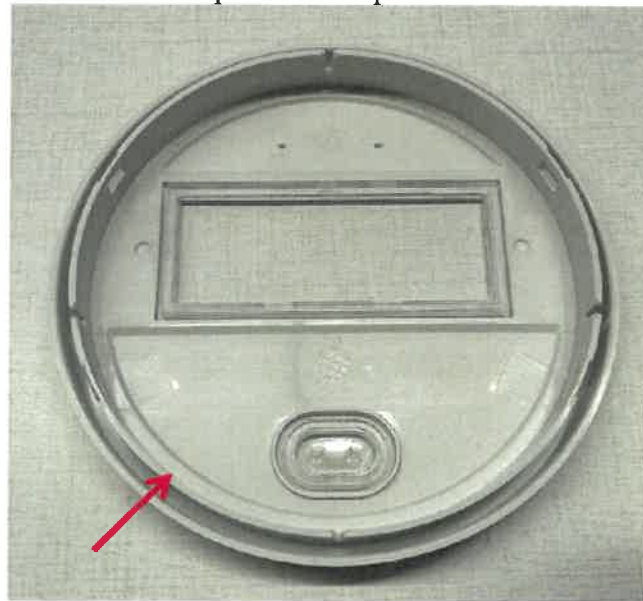
Type	DN size	L (mm)	W (mm)	H (mm)	H1 (mm)	thread (mm)
EUW300	DN15	110	96,3	78	64	G ¾
	DN20	130		82	65	G1
	DN25	150		88,5	67,5	G1 ¼

Fig. 2: Dimensions of the water meters type EUW300





snap-fits and snap-fit holes



groove

Fig. 3: Sealing of the water meter EUW300

