OIML Certificate

OIML Member State
The Netherlands

Number R85/2008-A-NL1-26.01 revision 0
Project number 3806928

Issuing authority	NMi Certin B.V. Person responsible: M.Ph.D. Schmidt
Applicant and Manufacturer	Qingdao Aubon Instrument Co., Ltd. 13 (b) Hancheng Road, Qianwan Bonded Port Area, Qingdao Area China (Shandong) Pilot Free Trade Zone Qingdao 266000 P.R. China
Identification of the certified type	An **automatic level gauge (ALG)** with temperature and density displacer senor Manufacturers mark: Aubon Type: CS-MI
Characteristics	See following page(s)

This OIML Certificate is issued under scheme A.

This 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):

R 85-1&2: 2008 "Automatic level gauges for measuring the level of liquid in stationary storage tanks"

This Certificate relates only to the metrological and technical characteristics of the type of measuring instrument covered by the relevant OIML International Recommendation identified above. This Certificate does not bestow any form of legal international approval.

Important note: Apart from the mention of the Certificate's reference number and the name of the OIML Member State in which the Certificate was 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.

Issuing Authority

NMi Certin B.V., OIML Issuing Authority NL1
7 April 2026

Certification Board

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The conformity was established by the results of tests and examinations provided in the associated report(s):

- No. NMi-3806928-01[1] dated 7 April 2026 that includes 36 pages.

Characteristics of the measuring instrument
In Table 1 the general characteristics of the measuring instrument are presented.
The construction of the measuring instrument is recorded in the Documentation folder no. R85-2008-A-NL1-26.01-1.

Table 1 General characteristics

Maximum measuring range level		55 metres		
Ambient temperature range		-40 – +70 °C; condensing humidity		
Displacer types	LF1 and LF13	Without additional sensor		
	VTM-I	Including temperature sensor		
	DSM-CS	Including temperature and density sensors		
Temperature displacer measuring range		-5 – +35 °C (only applicable for VTM-I displacer) -45 – +75 °C (only applicable for DSM-CS displacer)		
Density displacer measuring range		600 – 1100 kg/m³ at maximum viscosity of 15 mPa.s (only applicable for DSM-CS displacer)		
Power supply voltage		220 V AC @ 50/60Hz or 20 – 60 V DC		
Software identification			SW version	CRC checksum
		Main Control Board	V1.01675	11123
		Display Board	2076	42800
		VTM-I Floater	1.53	27251
		DSM-CS Floater	1.0	19977
Data communication	Inputs	- HART communication - RS485 communication		
	Outputs	- RS485 interface with transmission protocol; - HART communication; - Digital Output – K1 (not for legal metrology); - Digital Output – K2 (not for legal metrology); - 4-20 mA Output (not for legal metrology).		
	Transmission protocols	- Modbus protocol; - GPU protocol.		

[1] In type evaluation report NMi-3806928-01 annex 4 includes performance test on the displacer for liquid density and temperature. The maximum permissible error is based on OIML R117-1:2019.

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Certificate history:

Revision	Date	Description of the modification
0	7 April 2026	Initial version