

OIML Member State
The Netherlands

Number R85/2008-A-NL1-22.02 revision 0
Project number 2579596
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Issuing authority
Person responsible: NMi Certin B.V.
M.Ph.D. Schmidt

Applicant and
Manufacturer: Joyo M&C Technology Co., Ltd.
No.1 Inner, No.1, Building 1
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Gaoyangshu Nanli
Chaoyang District
Beijing
P.R. China

Identification of the
certified type: An **automatic level gauge** (servo principle) with temperature and density
displacer sensor
Type: BJLM-80H

Characteristics: See page 2 and further

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**
14 June 2022

Certification Board

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The conformity was established by the results of tests and examinations provided in the associated reports:

- No. NMI-2579596-01 dated 14 June 2022 that includes 29 pages;
- No. NMI-2579596-02 dated 14 June 2022 that includes 23 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 number 2579596-1.

The automatic level gauge is intended to measure by servo principle automatically and display the level of the liquid contained in a tank. Herewith the following displacer types can be used:

- SF displacer with no additional sensors;
- TF displacer including temperature sensor;
- MF displacer including temperature sensor and density sensor.

Table 1 General characteristics

Maximum measuring range level		30 metres (applicable for all displacer types)
Temperature displacer measuring range		-5 – +35 °C (only applicable for TF and MF displacers)*
Density displacer measuring range		600 – 1020 kg/m ³ (only applicable for MF displacers)* at maximum viscosity of 5 mPa·s
Ambient temperature range		-40 – +70 °C; condensing humidity
Power supply voltage		200 – 240 V AC; 50/60 Hz 24 – 48 V DC
Software identification	Level gauge	Version number: V10.9 Checksum: 136699
	TF or MF displacer	Version number: V5.2 Checksum: 63162
Data communication	Inputs	- Manual temperature input - 3 x HART for temperature transducers
	Outputs	- Display - 4-20 mA analog output (not for legal metrology) - Modbus RS485 serial communication

* The mentioned measuring ranges can be used for legal metrology. Outside these ranges, the measurement performance is not approved.



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Certificate history:

Revision	Date	Description of the modification
Initial	14 June 2022	Initial issue