

OIML Member State
The Netherlands

Number R85/2008-A-NL1-20.02 revision 2
Project number 3570224
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Issuing authority
Person responsible: NMi Certin B.V.
M.Ph.D. Schmidt

Applicant and
Manufacturer Endress+Hauser SE+Co. KG
Hauptstrasse 1
79689 Maulburg
Germany

Identification of the
certified type **A calculating and indicating device,**
intended for use as part of a liquid level gauge
Type: NRF81

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.

This certificate and supporting reports comply with the requirements of OIML-CS-PD-07 clause 6.2.

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**
10 October 2022

Certification Board

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The notification of NMi Certin B.V. as Issuing Authority can be verified at www.oiml.org

This document is digitally signed and sealed. The digital signature can be verified in the blue ribbon at the top of the electronic version of this certificate.



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

- No. NMI-16200591-05 dated 19 December 2016 that includes 19 pages.
- No. NMI-16200591-06 dated 19 December 2016 that includes 17 pages;
- No. NMI-2491609-01 dated 25 November 2020 that includes 52 pages;
- No. NMI-2491609-02 dated 25 November that includes 20 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. TC8909-4.

Table 1 General characteristics

| | |
|---------------------------|--|
| Ambient temperature range | -40 – +70 °C; condensing humidity |
| Power supply voltage | - AC mains 100 ... 240V AC (-15% / +10%) @ 50/60Hz - AC mains 65 V AC (-20% / +15%) @ 50/60Hz - DC mains 24 ... 55 V DC (-20% / +15%) |
| Software identification | Version number 01.02.00 with checksum 0x02FE Version number 01.02.01 with checksum 0x0D3E Version number 01.03.03 with checksum 0x8D45 Version number 01.04.01 with checksum 0xfa7a Version number 01.05.00 with checksum 0x991f Version number 01.06.00 with checksum 0x6fdb |

Certificate history:

This revision replaces the previous version.

| Revision | Date | Description of the modification |
|----------|------------------|--|
| Initial | 10 December 2020 | - |
| 1 | 25 March 2021 | Added new software version 01.05.00 |
| 2 | 10 October 2022 | Added new software version 01.06.00 and new hardware |