



OIML Certificate

OIML Member State
The Netherlands

Number R85/2008-A-NL1-22.01 revision 2
Project number 3934388
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Issuing authority

NMi Certin B.V.
Person responsible: M.Ph.D. Schmidt

**Applicant and
Manufacturer**

Enraf B.V.
Delftechpark 39
2628 XJ Delft
The Netherlands

**Identification of the
certified type**

A **field-interface** for use as part of a liquid automatic level gauge
Manufacturers mark: Enraf B.V.
Type: CIU 888

Characteristics

See following pages

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.

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Issuing Authority

NMi Certin B.V., OIML Issuing Authority NL1
24 June 2025

Certification Board

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This document is issued under the provision that no liability is accepted and that the applicant shall indemnify third-party liability.

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-14200441-1 dated 12 February 2015 that includes 31 pages;
- No. NMI-14200441-2 dated 15 January 2015 that includes 13 pages;
- No. NMI-1901414-01 dated 12 September 2017 that includes 22 pages;
- No. NMI-2642156-01 dated 13 June 2022 that includes 21 pages;
- No. NMI-3574679-01 dated 23 December 2022 that includes 8 pages;
- No. NMI-3934388-01 dated 24 June 2025 that includes 56 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. TC8618-3.

The CIU 888 is the interface between the tank gauging instruments on bulk liquid storage tanks and computer systems in the tank farm control room providing accurate gauge data and process data. 1 up to 50 tanks (up to 80 tanks with CIU Plus compliant Modbus) can be connected to a single CIU 888. All measured data including level, temperature, pressure, density, alarm status, interface level, vapor temperature and other data is scanned continuously. The data is stored in a local real-time database.

Table 1 General characteristics Field-interface CIU 888

Ambient temperature range	+5 – +55 °C; Non-condensing humidity
Power supply voltage	100 – 240 VAC (-15% / +10%) @ 50/60Hz
Electromagnetic environment class	E2 Industrial
Software identification	see details in table 2

Table 2 Software identification Field-interface CIU 888

Software Identification CIU			Software Identification CIU		
Version	Build	Checksum	Version	Build	Checksum
R100	1.0.5450.0	-	R130.3	3.2.6872.0	-
R101.	1.1.5610.0	-	R140.1	4.0.7097.0	-
R101.4	1.1.5645.0	-	R140.2	4.1.7225.0	2759657614
R101.5	1.1.5907.0	-	R150.1	5.0.7285.0	3118870
R101.6	1.1.5986.0	-	R160.1	6.0.7493.0	3890705539
R103.1	1.2.6120.0	-	R161.1	7.0.7580.0	4259271146
R103.2	1.2.6248.0	-	R161.2	7.1.78620.0	773265716
R120.1	2.0.6412.0	-	R200.1	9.0.8054.0	1882858561
R120.2	2.0.6640.0	-	R210.1	10.0.8364.0	2725517557
R130.1	3.0.6785.0	-	R210.2	10.1.8529.3	1801706353
R130.2	3.1.6834.0	-	R220.1	11.0.9243.0	2827046254



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Remark: For all the software versions before R140.2, build 4.1.7225.0; the build number has the same functionality as the checksum.

Production location

The Smartradar Flexline XP and Smartradar Flexline HP, antennas and Field-interface CIU 888 is produced at one of the following production locations:

- Honeywell Enraf, Delftechpark 39, 2628 XJ Delft, The Netherlands;
- Honeywell international (India) Private Ltd. Plot No. 2, Gat No. 181, village Fulgaon, Tal-Haveli, PUNE-412261, India.

Certificate history:

This revision replaces the previous version.

Revision	Date	Description of the modification
Initial	13 July 2022	-
1	23 December 2022	Implementation of new calculations and software update
2	24 June 2025	Implementation of new calculations and software update R220.1