

**OIML Member State**  
The Netherlands

Number R85/2008-A-NL1-22.01 revision 1  
Project number 3574679  
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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 <b>field-interface</b> 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.

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 Reports is not permitted, although either may be reproduced in full.

Issuing Authority **NMi Certin B.V., OIML Issuing Authority NL1**  
23 December 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-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.

### 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**

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

<sup>[1]</sup> For all the software versions before R140.2, build 4.1.7225.0; the build number has the same functionality as the checksum.



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## 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