OIML Certificate of Conformity

OIML Member State
The Netherlands

Number R85/2008-NL1-17.05 revision 2
Project number 1900582

Issuing authority	NMi Certin B.V. Person responsible: C. Oosterman
Applicant and Manufacturer	Enraf B.V. Delftechpark 39 2628 XJ Delft The Netherlands
Identification of the certified type	An **automatic level gauge for measuring the level of liquid in stationary storage tanks** Type : Smartradar Flexline XP and Smartradar Flexline HP, with the antennas F06, F08, W06, H04, S06, S08, S10 and S12, and with indicating device SmartView, and / or indicating device HARTSmartView.
Characteristics	See next page

This Certificate attests the conformity of the above identified Type (represented by the sample(s) identified in the OIML Test 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 above-identified. 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 Test Report(s) is not permitted, although either may be reproduced in full.

Issuing Authority

NMi Certin B.V., OIML Issuing Authority NL1
28 August 2017

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

- R85/1998-NL1-07.02 that includes 100 pages;
- CPC/9200376 that includes 20 pages;
- NMi-10200994 that includes 15 pages;
- NMi-12200691 that includes 13 pages;
- NMi-13200623 that includes 14 pages;
- NMi-14200253-1 that includes 21 pages;
- NMi-16200400-01 that includes 21 pages;
- NMi-16200400-02 that includes 21 pages;
- R85-2008-NL1-12.04 dated 10 December 2012 that includes 49 pages;
- NMi-13200623 dated 15 October 2013 that includes 14 pages;
- NMi-1900750-02 dated 24 March 2017 that includes 26 pages.

Characteristics of the automatic level gauge for measuring the level of liquid in stationary storage tanks

Measuring ranges:

Antenna type	Minimum product level	Maximum product level	Minimum and maximum values for liquid pressure, for liquid temperature and for liquid properties.	Minimum and maximum values for vapour pressure, for vapour temperature and for vapour properties.
F06, F08, W06	20 m below the antenna	1 m below the antenna	The manufacturer shall specify these values for each application.	The manufacturer shall specify these values for each application.
H04, S06, S08, S10, S12	21 m below the antenna	1 m below the antenna	The manufacturer shall specify these values for each application.	The manufacturer shall specify these values for each application.

See the doc folder TC7314-8 for drawings of the antenna's.
See the doc folders TC7314-8 and TC7315-3 for other information.

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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. TC7314-8.

Table 1 General characteristics

Ambient temperature range	-25 … +70 °C; condensing humidity
Power supply voltage	65 Vac – 240 Vac @ 50/60Hz or 24 Vdc .. 65 Vdc
Software identification	

Part	type	software	checksum
sensor processor in combination with sensor ART2A	TII-XR (also indicated as CAN Xband board) with ART2A	A10xxx and DSP A10 xxx A11xxx and DSP A11 xxx A12xxx and DSP A12 xxx	0
		A1300	38676
		DSP A1300	0x55B4
sensor processor in combination with sensor ART2B	TII-XR (also indicated as CAN Xband board) with ART2B	A10xxx and DSP A10 xxx A11xxx and DSP A11 xxx	0
		A1204 and DSP A12 xxx	64095 (=0xFA5F)
		A1300	38676
		DSP A1300	0x55B4
display communication board	HMI-TSI / FII-SMV	A10xxx (previous to A1006)	0
		A1006	03170 (=0x0C62)
		A1007	22441
display communication board	FCI-HRT	A1006T	38785 (=0x9781)
		A1007	12537
communication board	CAN-BPM/HCI-BPM	A10xxx (previous to A1007)	0
		A1007	37556 (=0x92B4)
communication board	CAN-TRL2/HCI-TRL2	A1001	12361030 (=0x00BC9D46)
interface board	CAN RTD/FII_RTD	A10xxx (previous to A1004)	0
		A1004	0
interface board	CAN-HART-SLAVE/HCI-HAO	A10xxx (previous to A1003)	0
		A1003	12791
interface board	CAN RS/HCM-GPU	A10xxx	0
interface board	CAN SD	A10xxx	0

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Part	type	software	checksum
1 WL main board	CAN-HCI-1WL	A10xxx	0
		A3013	22685
		A3017	16395
		A3018	11607

Certificate history:
This revision replaces the previous revision.

Revision	Date	Description of the modification
Initial	16 June 2017	-
01	2 August 2017	New software version A1300 and DSP A1300 because addition of reference height compensation in wet part and in dry part of the tank.
02	28 August 2017	Typing error in issuing date and date of certificate history