OIML Certificate

OIML Member State
The Netherlands

Number R 117/2007-B-NL1-18.01
Project number 1901006

Issuing authority Person responsible:	NMi Certin B.V. C. Oosterman
Applicant and Manufacturer	GE Infrastructure Sensing, LLC. 1100 Technology park Drive, Billerca, MA 01821, United States of America
Identification of the certified type	A **measurement transducer** (ultrasonic flow meter). Type: Sentinel LCT8
Characteristics	See page 2 and further

This OIML Certificate is issued under scheme B

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 117-1 (2007) "Dynamic measuring systems for liquids other than water"

Accuracy class 0,3

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**
13 August 2018

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

- No. NMi-1901006-01 dated 6 August 2018 that includes 122 pages;
- No. NMi-1901006-02 dated 6 August 2018 that includes 20 pages.

Characteristics of the flow transmitter
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. T11088-1.

Table 1 General characteristics of the Sentinel LCT8

Minimum – maximum flow rate	xxx – xxx m^3/h [1]
Minimum measured quantity	zzz m^3 [2]
Maximum pressure	100 bar(g)
Accuracy class	0,3
Environmental classes	M2 / E2
Ambient temperature range	-40 – +70 °C
Product temperature range	-40 – +140 °C
Intended for the measurement of	liquid petroleum and related pro-ducts, liquid food and chemical products in liquid state, with viscosities up to 6600 mPa.s.
Power supply voltage	Flow Transmitter with AC power supply 100 – 230 V AC; 50/60 Hz
	Flow Transmitter with DC power supply 12 – 24 V DC.
Software identification	LCT8R01.001.B; CrC: E91CF3C7 [3]

[1] The maximum and minimum flowrate can be found in table 2.
[2] The Minimum measured quantity can be found in table 2.
[3] Flow meter electronics working both on AC and DC power supply.

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Meter size [inch]	Q_{min} [m^3/h]	Q_{max} [m^3/h]	Minimum measured quantity [m^3]	Minimum Reynolds Number [-]
DN150 [6"]	20	800	1,0	1500
DN200 [8"]	35	1400	2,0	1750
DN250 [10"]	56	2200	2,0	1750
DN300 [12"]	80	3200	5,0	1900
DN350 [14"]	98	3900	5,0	2100
DN400 [16"]	129	5200	5,0	2250
DN450 [18"]	165	6600	5,0	4500
DN500 [20"]	206	8200	10,0	5000
DN600 [24"]	301	12000	10,0	8000

Table 2: Overview of the different sizes and flow characteristics.

The complete family of meter consists of one family (which are of similar construction) and have the following flow characteristics indicated in table 2.