

OIML Member State
The Netherlands

Number R117/2007-A-NL1-20.10 revision 8
Project number 3645961
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Issuing authority
Person responsible: NMi Certin B.V.
M.Ph.D. Schmidt

Applicant &
Manufacturer: Advanced Flow Solutions, Inc, d/b/a Liquid Controls
9201 N I-35 Service Rd
Oklahoma City, OK 73131
United States of America

Identification of the
certified type: An **electronic calculating and indicating device**
Type: LCR.iQ, LCRx.iQ, MASTERLOAD.iQ or MASTERLOADx.iQ

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

Accuracy class: 0,5

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**
27 February 2023

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-2408986-01 dated 18 December 2019 that includes 42 pages;
- No. NMI-2408986-02 dated 18 February 2020 that includes 29 pages;
- No. NMI-3508928-01 dated 3 May 2022 that includes 14 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. TC11730-2.

Table 1 General characteristics

Accuracy class		0,5		
Environmental classes		M3 / E2 + E3		
Ambient temperature range		-40 / +70 °C; condensing humidity		
Product temperature range		-40 / +140 °C		
Intended for the measurement of		Liquids other than water		
Power supply voltage		9 – 28 V DC		
Software identification	DESCRIPTION	VERSION	CHECKSUM	
	GNU/Linux	4.9.88-007	060afc2bc6f029379c15ece991aa6eb8	
	LCR.iQ software part and version	SR1000 v1.07		b22c8503bfe9924042aa7002cf5777b4
		SR1000 v1.08.01		1d0f9a85ac081149c8448ed9e09ac98e
		SR1000 v1.09.01		c0ffacce4c4cec16018521104a8584f4
		SR1000 v1.09.03		d270eb3bf9077ff78b28280b30e1bdc
		SR1000 v1.11.00		458753561247b99027a3a3dca9fef4b9
		SR1000 v1.12.00		8b245ad14e880d123c81d4de82b54bf3
		SR1000 v1.13.00		58df3d589195786e48e7ebe623b6eae4
		SR1000 v1.14.00		41543ee3dc0a6fa5b30d63d6834f0764
		SR1000 v 1.15.00		ae5d05041858fbc7d85aa855bba9ea5d
	I/O board software part and version	SR1010 v1.06		0d8d6df0
		SR1010 v1.07.01		1D993269
		SR1010 v1.08.01		ef7c3c68
		SR1010 v 1.08.03		01f6bf3d
SR1010 v 1.11.00			98cbd2c7	

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		SR1010 v 1.12.00	3b85055f
		SR1010 v 1.13.00	eadc874f
		SR1010 v 1.14.00	299bb66b
		SR1010 v 1.15.00	78308f63
	SENSEiQ board software part and version	SR1011 v 1.00.01	9E2451A0
		SR1011 v 1.01.03	ba4986fa
		SR1011 v 1.11.00	686dfc37
		SR1011 v 1.12.00	bc3856a0
		SR1011 v 1.13.00	8cddc14a
		SR1011 v 1.14.00	f58Se1c0
		SR1011 v 1.15.00	956dac5a

Production location

The electronic calculating and indicating device are produced at one of the following production locations:

- Liquid Controls LLC, 105 Albrecht Drive, Lake Bluff, IL-60044, United States of America;
- Advanced Flow Solutions, Inc, d/b/a Liquid Controls, 9201 N I- 35 Service Rd, Oklahoma City, OK 73131, United states of America;
- SAMPI SpA, Via A. Verspucci 1, 55011, Altopascio, Lucca, Italy

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Certificate history:

This revision replaces the previous version.

Revision	Date	Description of the modification
Initial	1 July 2020	-
1	3 August 2020	Software update.
2	22 December 2021	Software update.
3	29 March 2021	Add production location.
4	10 September 2021	Manufacturer name changed
5	03 May 2022	Software update with addition of ASTM D1250-04 Table 60B
6	12 July 2022	Software update.
7	27 December 2022	Software update with Branding Package BR1000 v1 .72 and update long term storage (extension L).
8	27 February 2023	Software update.