OIML Certificate

OIML Member State
The Netherlands

Number R117/2007-A-NL1-20.10 revision 12
Project number 3901008

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
11 December 2024

Certification Board

NMi Certin B.V.
Thijsseweg 11
2629 JA Delft
The Netherlands
T +31 88 636 2332
certin@nmi.nl
www.nmi.nl

INSPECTION RvA I 122

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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 24 V DC (when powered using a vehicle battery)	
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	d270eb3bf9077ff78b28280b30e1bdcb
		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
		SR1000 v 1.16.00	fdf799a47d2299c2b1cc58a54880cf74
		SR1000 v 1.17.00	03def836502d08569ec35d288768ded5
		SR1000 v 1.17.02	f1d96f16b5937a4d4ed51a5d4e147970
		SR1000 v 1.18.00	90ae811ddda601eb8d29bd36d7106196
		SR1010 v1.06	0d8d6df0

	I/O board software part and version	SR1010 v1.07.01	1D993269
		SR1010 v1.08.01	ef7c3c68
		SR1010 v 1.08.03	01f6bf3d
		SR1010 v 1.11.00	98cbd2c7
		SR1010 v 1.12.00	3b85055f
		SR1010 v 1.13.00	eadc874f
		SR1010 v 1.14.00	299bb66b
		SR1010 v 1.15.00	78308f63
		SR1010 v 1.16.00	e9bb9748
		SR1010 v 1.17.00	a20b960c
		SR1010 v 1.17.02	329d7a89
		SR1000 v 1.18.00	ad8f7a33
	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
		SR1011 v 1.16.00	bda3b16d
		SR1011 v 1.17.00	bf8929b6
		SR1011 v 1.17.02	567ef17f
		SR1000 v 1.18.00	8e21bb8d

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 versions.

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.
9	3 July 2023	Software update.
10	12 January 2024	Software update.
11	24 June 2024	Software update.
12	11 December 2024	Software update.