

OIML Member State
The Netherlands

Number R139/2018-A-NL1-24.02 revision 0
Project number 3690112
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Issuing authority NMi Certin B.V.
Person responsible: M.Ph.D. Schmidt

Applicant and Manufacturer MAXIMATOR Hydrogen GmbH
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99734 Nordhausen
Germany

Identification of the certified type A **compressed gas (CG) dispenser** for hydrogen
Type: MAX Dispenser 1.5
HxxFyy*

Characteristics See following page(s)

Remarks * xx details the fueling pressure, yy details the fueling flow rate. See characteristics for details.

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 139: 2018 "Compressed gaseous fuel measuring systems for vehicles"

Accuracy class 2

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**
23 April 2024

Certification Board

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

- No. NMI-3690112-01 dated 23 April 2024 that includes 31 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. T9029-1

The type designation of the dispenser details the actual configuration. "MAX Dispenser 1.5" is the frame model with the extension "HxxFyy", where Hxx is the fuelling pressure and Fyy the maximum flow rate. This certificate is valid for the configuration H70F60 and H35F60, a 700 bar or 350 bar dispenser with a maximum fuelling flow rate of 60 gram/second.

Table 1 General characteristics

Accuracy class	2
Minimum – maximum flow rate	Depending on the flow sensor used, see the relevant OIML certificate.
Ratio Q_{max}/Q_{min}	≥ 10
Minimum measured quantity	1 kg
Maximum pressure	Depending on the flow sensor used, see the relevant OIML certificate.
Environmental classes	Depending on the parts used, see the relevant OIML certificates.
Ambient temperature range	Depending on the parts used, see the relevant OIML certificates.
Product temperature range	Depending on the flow sensor used, see the relevant OIML certificate.
Intended for the measurement of	Hydrogen
Power supply voltage	230 V AC; 50/60 Hz

In Table 2 the overview of the essential parts of the measuring instrument are presented.

Each CG dispenser consists at least of one measuring system made up of the following essential parts:

- A flow meter (measurement sensor and transducer); and
- A calculating/indicating device.

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Table 2 Overview parts of the measuring instrument

Part	Producer	Type	OIML certificate	OIML Reports	Remarks
Measurement sensor	Rheonik messtechnik GmbH	RHM04 or RHM10	R139/2018-A-NL1-22.01	See OIML certificate	To be used with Rheonik transducer.
Measurement transducer	Rheonik messtechnik GmbH	RHE42 or RHE45	R139/2018-A-NL1-22.04	See OIML certificate	To be used with Rheonik sensor.
Calculating / indicating device	FillnDrive	VCID	R139/2018-A-NL1-24.01	See OIML certificate	-

Certificate history:

Revision	Date	Description of the modification
0	23 April 2024	Initial issue