

**OIML Member State**  
The Netherlands

Number R139/2018-A-NL1-24.02 revision 1  
Project number 3800847  
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Issuing authority NMI Certin B.V.  
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Applicant and Manufacturer MAXIMATOR Hydrogen GmbH  
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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.

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27 June 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.
- No. NMI-3800847-01 dated 27 June 2024 that includes 27 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. T9029-2

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 following configurations:

- H70F60 and H35F60, a 700 bar or 350 bar dispenser with a maximum fuelling flow rate of 60 gram/second
- H35F120, a 350 bar High Flow dispenser with a maximum fuelling flow rate of 120 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 $Q_{max}/Q_{min}$	$\geq 10$
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 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.

**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:**

This revision replaces the previous version

Revision	Date	Description of the modification
Initial	23 April 2024	-
1	27 June 2024	H35F120 dispenser added.