

OIML Member State
The Netherlands

Number R139/2018-A-NL1-26.03 revision 0
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Issuing authority NMI Certin B.V.
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Identification of the certified type A **compressed gas (CG) dispenser** for hydrogen
Type: EHS

Characteristics See following page(s)

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**
27 March 2026

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-3821091-01 dated 27 March 2026 that includes 35 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. T9037-1.

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 (H_2)

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.

The CG dispenser automatically depressurizes the entire section from the filling valve up to and including the hose via the purge valve for safety reasons. Delivery is only allowed when the purge valve is fully closed.

The CG dispenser performs a correction to account for the depressurization quantity, for this purpose the temperature, pressure and volume of the depressurization section needs to be known:

- The pressure and temperature are measured in the depressurization section.
- The electronic calculating and indicating device monitors the pressure and temperature measurement for status. In case of abnormalities an alarm is raised, and the refuelling terminated.

The actual volume of the depressurization section is determined based on the components of the dispenser (Pipework/valves/hoses/etc.) and configured in the calculating/indicating device.

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

Table 2 Overview parts of the measuring instrument

Part	Producer	Type	OIML certificate	OIML Reports	Remarks
Measurement sensor	Emerson Process Management Flow B.V.	HPC0xx	R139/2018-A-NL1-21.03	See OIML Certificate	With MVD electronics as mentioned in OIML certificate.
Calculating / indicating device	Coptron	CPTH02	R139/2018-A-NL1-25.05	See OIML Certificate	-

Certificate history:

Revision	Date	Description of the modification
0	27 March 2026	Initial issue