

OIML Member State
The Netherlands

Number R139/2018-B-NL1-20.02
Project number 2459113
Page 1 of 4

Issuing authority
Person responsible: NMi Certin B.V.
M. Boudewijns

Applicant and
Manufacturer Houpu Clean Energy Co., Ltd.
No. 555, Kanglong Road
Gaoxin District
Chengdu, Sichuan
P.R. China

Identification of the
certified type A **compressed gas (CG) dispenser** for CNG
Type: HP-JQJ-I(II)

Characteristics See page 2 and further

This OIML Certificate is issued under scheme B

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 139-1 (2018) "Compressed gaseous fuel measuring systems for vehicles"

Accuracy class 1,5

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**
18 August 2020

Certification Board

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

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.



OIML Member State
The Netherlands

Number R139/2018-B-NL1-20.02
Project number 2459113
Page 2 of 4

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

- No. NMI-2459113-01 dated 18 August 2020 that includes 23 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. NMI-2459113-01-1.

Table 1 General characteristics

Minimum – maximum flow rate	1 – 30 kg/min with E+H measurement transducer 1,3 – 30 kg/min with Emerson measurement transducer
Minimum measured quantity	2 kg
Maximum pressure of the gas	20 MPa
Maximum storage pressure	25 MPa
Accuracy class	1.5
Environmental classes	M1
Ambient temperature range	-25 – +55 °C
Product temperature range	-25 – +55 °C
Intended for the measurement of	Compressed Natural Gas (CNG)
Power supply voltage	185 – 245 V AC; 50 Hz

Each measuring instrument consists at least of:

- One measurement transducer (meter);
- One calculating/indicating device (calculator).

The characteristics of the mentioned parts of the dispenser are presented at table 2 and higher.

OIML Member State
The Netherlands

Number R139/2018-B-NL1-20.02
Project number 2459113
Page 3 of 4

Parts of the measuring instrument

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

Part: Measurement transducer
 Producer: Endress+Hauser Flowtec AG.
 Type: CNGmass
 Documentation folder: TC10997-1
 Reports: No. CPC-10200012-2, No. NMI-16200831-01 and No. NMI-16200831-02

Table 2 General characteristics of the measurement transducer type CNGmass

Minimum – maximum flow rate	0,3 – 30 kg/min (size DN08) 0,8 – 80 kg/min (size DN15)
MMQ	1 kg
Maximum pressure	350 bar
Intended for the measurement of	Compressed Natural Gas (CNG)
Software identification	Version number: 1.01.00 Checksum: 0x13BD2D46

Part: Measurement transducer
 Producer: Emerson Process Management Flow B.V.
 Type: CNG 050
 Documentation folder: TC11012-1
 Reports: No. CPC/9200574-2 and No. NMI-1900487-01

Table 3 General characteristics of the measurement transducer type CNG050

Minimum – maximum flow rate	1,3 – 77 kg/min
MMQ	1 kg
Maximum pressure	317 or 345 bar(g) (depending on flange type)
Intended for the measurement of	Compressed Natural Gas (CNG)
Software identification	Version number: 3.52 Checksum: 3C4A

OIML Member State
The Netherlands

Number R139/2018-B-NL1-20.02
Project number 2459113
Page 4 of 4

Part: Calculating/indicating device
Producer: Houpu Clean Energy Co.,Ltd.
Type: HP-JQJ-CS
Documentation folder: TC8864-1
Reports: NMI-16200138-01 and NMI-16200138-02

Table 4 General characteristics of the calculating/indicating device type HP-JQJ-CS

Software identification	Version number: Ver3.248ZY Checksum: 3A 04
-------------------------	---