

**OIML Member State**  
The Netherlands

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Page 1 of 4

Issuing authority NMI Certin B.V.  
Person responsible: M.Ph.D. Schmidt

Applicant and Manufacturer Houpu Clean Energy Group 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 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 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.

This certificate and supporting reports comply with the requirements of OIML-CS-PD-07 clause 6.2.

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Issuing Authority **NMI Certin B.V., OIML Issuing Authority NL1**  
17 June 2022

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-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 -40 – +55 °C
Product temperature range	-25 – +55 °C -40 – +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.

Ambient temperature range is:

- -25 – +55 °C
- -40 – +55 °C

depending on the display specified in TC8864.

Product temperature range is:

- -25 – +55 °C
- -40 – +55 °C

depending on the transducer specified in TC10997 or TC11012.

## 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 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 CNG 050**

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

Part: Calculating/indicating device  
 Producer: Houpu Clean Energy Group Co., Ltd.  
 Type: HP-JQJ-CS  
 Documentation folder: TC8864-2  
 Reports: No. NMI-16200138-01, NMI-16200138-02, NMI-2657857-01 and NMI-2657857-02

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

Software identification	Version number: Ver3.248ZY Checksum: 3A 04
	Version number: CS-CAL-C V1.0 Checksum: 2C00FABB

**Certificate history:**

Revision	Date	Description of the modification
Initial	17 June 2022	Adding the variation of ambient/product temperature range.