



OIML Member State

Czech Republic

OIML Certificate No.

R117/2019-A-CZ1-25.04

OIML CERTIFICATE ISSUED UNDER SCHEME A

OIML Issuing Authority

Name: **Czech Metrology Institute**

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Czech Republic

Person responsible: Jan Kalandra

Applicant

HONGYANG GROUP CO. LTD

3 Gaoxiang Rd. Gaoxiang Industry

Ouhai District

Wenzhou, Zhejiang

China

Manufacturer

HONGYANG GROUP CO. LTD

3 Gaoxiang Rd. Gaoxiang Industry

Ouhai District

Wenzhou, Zhejiang

China

Identification of the certified type *(the detailed characteristics will be defined in the additional pages)*

Fuel dispenser

type: CMD1687SK-G

This OIML 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):

OIML R 117, Edition: 2019

This OIML Certificate relates only to metrological and technical characteristics of the type of measuring instrument covered by the relevant OIML Recommendation identified above.

This OIML Certificate does not bestow any form of legal international approval.

The conformity was established by the results of tests and examinations provided in the associated OIML type evaluation report and test reports:

Evaluation Report: 0511-ER-F018-25

Test reports: 6015-PT-P0041-25, 6011-PT-SW029-25, 8551-PT-E0156-25 issued by Czech Metrology Institute

The technical documentation relating to the identified type is contained in documentation file:

OIML Certificate History

Revision No.	Date	Description of the modification
	10 December 2025	Issuing of certificate

The OIML Issuing Authority

Ing. František Staněk, PhD.

Deputy Head of Certification Body



Date: 10 December 2025



Important note: Apart from the mention of the Certificate's reference number and the name of the OIML Member State in which the Certificate is 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.

Measuring device description

The CMD1687SK-G fuel dispensers are designed for measurement of liquid fuel volumes and are used for the refuelling of motor vehicles, small boats and small aircrafts.

The CMD1687SK-G measuring system consists of a pumping unit with incorporated gas separator, measuring transducer, electronic calculator with indicating device (display) and electronic totalizing indicating device, electromagnetic valve, sight glass (optional) and hose with delivery nozzle.

This fuel dispenser is equipped with pre-setting device. Pre-setting of a volume or price value is done by keyboard on the electronic calculator.

This measuring system can be made as pressurized system in centrally pumped system or with external submersible pump. In that case the installation of a gas separator is NOT mandatory. If it is not intended to install a gas separator, the design of installation has to ensure that there is no risk of air intake or gas release.

Designation of a fuel dispenser series:

CMD1687SK-G (nul, A, B, C) (1, 2, 4, 8) (1, 2, 3, 4, 6, 8) (null, Q),

the meaning of the all codes explains the table below.

NO	Model	Model description	Main components	Remark
1	CMD1687SK-G	1N1Fm	1Pm1Sv1Ec	G: 1 product GA: 2products GB: 3 products GC: 4 products Q = Submersible pump N=Nozzle Fm=Flowmeter Pm=Pump (+ motor) Sv=Solenoid valve Ec=Electronic calculator
2	CMD1687SK-G2	2N1Fm	1Pm2Sv1Ec	
3	CMD1687SK-G22	2N2Fm	1Pm2Sv1Ec	
4	CMD1687SK-GA	2N2Fm	2Pm2Sv1Ec	
5	CMD1687SK-GA4	4N2Fm	2Pm4Sv2Ec	
6	CMD1687SK-GA44	4N4Fm	2Pm4Sv2Ec	
7	CMD1687SK-GB6	6N3Fm	3Pm6Sv3Ec	
8	CMD1687SK-GB66	6N6Fm	3Pm6Sv3Ec	
9	CMD1687SK-GC8	8N4Fm	4Pm8Sv4Ec	
10	CMD1687SK-GC88	8N8Fm	4Pm8Sv4Ec	
11	CMD1687SK-GQ	1N1Fm	1Sv1Ec	
12	CMD1687SK-G2Q	2N1Fm	2Sv1Ec	
13	CMD1687SK-G22Q	2N2Fm	2Sv1Ec	
14	CMD1687SK-GAQ	2N2Fm	2Sv1Ec	
15	CMD1687SK-GA4Q	4N2Fm	4Sv2Ec	
16	CMD1687SK-GA44Q	4N4Fm	4Sv2Ec	
17	CMD1687SK-GB6Q	6N3Fm	6Sv3Ec	
18	CMD1687SK-GB66Q	6N6Fm	6Sv3Ec	
19	CMD1687SK-GC8Q	8N4Fm	8Sv4Ec	

This certificate covers all models of a fuel dispenser including suction pump type and submersible remote pump type mentioned in the table above. All of the models consist of the same components and they are identical in metrological point of view.

Main components

Pumping unit with gas separator	HONGYANG U102-B
Measurement transducer	HONGYANG U101-B
Pulse transmitter	HONGYANG U501-G
Calculating / indicating device	HONGYANG S20

Basic technical and metrological data

Pattern designation	CMD1687SK-G
Max. flow rate Q_{\max} [L/min]	50
Min. flow rate Q_{\min} [L/min]	5
Min. measured quantity MMQ [L]	2
Accuracy class	0.5
Liquids	Gasoline, Diesel, Kerosene
Liquid temperature range [°C]	-5 to 35
Ambient temperature range [°C]	-40 to +55
Maximum pressure [MPa]	0.35
Minimum pressure [Mpa]	0.16
Environmental classes	M1, E1, H3
Measurement unit	Volume [L]
Type of display:	Electronic
Scale interval of the indication [L]	0.01
Power supply	220 V / 230 V; 380 V / 400 V; 50 / 60 Hz
Maximum unit price (no. of digits)	9999(4) or 999999(6)
Maximum volume (no. of digits)	999999(6) or 99999999(8)
Maximum price to pay (no. of digits)	999999(6) or 99999999(8)
Approved software versions	0086-270-01
W&M checksum (CRC)	3371937762