

**OIML Member State**  
The Netherlands

Number R 117/2019-A-NL1-21.07  
Project number 2483188  
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Issuing authority  
Person responsible: NMi Certin B.V.  
M.Ph.D. Schmidt

Applicant and  
Manufacturer NetPrise Solutions  
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India

Identification of the  
certified type **A Fuel Dispenser**  
Type: SmartFDU\*\*\*\*\* [1]

Characteristics See page 2 and further

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 117:2019** "Dynamic measuring systems for liquids other than water"

Accuracy class 0,5

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.

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.

[1] Where "\*" can be a number or a letter for representing different configurations of the dispenser.

Issuing Authority **NMi Certin B.V., OIML Issuing Authority NL1**  
30 July 2021

#### Certification Board

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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](http://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.



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

- No. NMI-2483188-01 dated 30 July 2021 that includes 112 pages.
- No. NMI-2555194-01 dated 16 March 2021 which includes 25 pages.

### Characteristics of the Dispenser

In Table 1 the general characteristics of the Dispenser are presented.

The construction of the Dispenser is recorded in the Documentation folder no. 24283188-1.

**Table 1 General characteristics**

Manufacturer's trademark	Netprise Solutions
Type designation	SmartFDU*****
Accuracy class	0,5
Instrument Type	Fuel Dispenser
Approved essential Parts	Calculating and indicating device make NetPrise - SmartFDU*****  Measurement transducer - PD meter make Petrotec - PTF 25-80  Electro-Mechanical Pulsar make NetPrise - NSL_PE_M1
Approved for Products	Gasoline; Diesel.
Maximum number of Nozzles	8
Environment Classes	M2 / E1 / H3
Ambient temperature range	- 25 °C ... + 55 °C
Liquid temperature range	- 5 °C ... + 35 °C
Flow rate range	2,5 L/min... 80 L/min
Minimum Measured Quantity	2 Litres
Density range	700 ... 850 kg/m <sup>3</sup>
Maximum pressure	3,5 bar(g)
Approved external electrical power connection for Calculator	220 VAC / 50 Hz
Identification of software	refer table 4 for details.

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Each dispenser consists at least of:

- One measurement transducer (PD meter PTF 25-80);
- One calculating/indicating device (calculator).
- A gas separator is not essential as submersible pump is used, measures should be taken on the supply tank to make sure that air or gas is not introduced in the system.

Optionally, a printer can be connected to the dispenser as follows:

- Printer mounted on the dispenser door, powered and communication through the dispenser;
- Remote printer connected via the POS communication cable.

The approved external power source for the dispenser is 220 VAC 50 Hz.

The same housing of the dispenser can comprise of one or more measuring systems. When more than one measuring systems are in one housing, one calculating/indicating device may be a common part of the measuring systems.

The calculating/indicating device can have a maximum of 4 main displays, allowing it to configure and control 8 nozzles (meters), out of which 4 nozzles (meters) can be simultaneously operated. A maximum of two nozzles (meters) can be connected to each calculating/indicating device's main display, these two nozzles cannot be simultaneously operated.

Approved input – Pulsar communication cable via CAN protocol

Approved output – POS communication cable via RS-485.

All communication cables (POS and Pulsar) should be shielded cables and less than 10 meters in length.

A single meter is used to deliver fluid through the hydraulic path for each nozzle (no parallel or series meter combination).

The characteristics of the essential parts of the fuel dispenser are presented at table 3 and higher.

### Essential Parts of the Dispenser

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

Part:	<u>Measurement transducer – Positive Displacement Meter</u>
Producer:	Petrotec
Type:	PTF 25-80
Documentation folder:	TC7293-3
Reports:	No. NMI-2555194-01 dated 16 March 2021 which includes 25 pages.

**Table 2 General characteristics of the measurement transducer type FF-1025**

Flow rate range [L/min]	3,5 – 80 L/min
MMQ	2 L
Maximum pressure	3,5 bars
Product temperature range	-5 °C / +35 °C
Intended for the measurement of	Gasoline; Diesel
Density range	700 to 850 kg/m <sup>3</sup>

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Part: Calculating/indicating device  
 Producer: Netprise Solutions  
 Type: SmartFDU  
 Documentation folder: 2483188-1  
 Reports: No. NMI-2483188-01 dated 30 July 2021 that includes 108 pages.

**Table 3 General characteristics of the calculating/indicating device type SmartFDU**

Maximum volume indication	8 digits (6 integers and 2 decimals)
Maximum price to pay	8 digits (6 integers and 2 decimals)
Environmental classes	M2 / E1 / H3 (Condensing Humidity)
Ambient temperature range	-25 °C / +55 °C
Power supply	220 VAC 50 Hz
Maximum number of nozzles	8
Maximum number of main displays	4
Approved input	Pulser communication cable via CAN
Approved output	POS communication cable via RS-485
Pulser	Magnetic Pulser NSL_PE_M1 CAN communication protocol Output signal 1024 pulse/revolution

**Table 4 Software identification**

Board	Firmware version	Hash code
Mother_B Board	v1.x.x <sup>[1]</sup>	f31e748085e531b92ae8a581dde88fc97508a3a7d06b8fd65d74bf722da5e4c984d929fe987b71567a0b658d65de12e26aaf64a6969d317d20c4f93e927d88d5
ECAL Board	v1.x.x <sup>[1]</sup>	04a8a443345017ffc0ebf98246dc30655e08d3de51a60078227de6f88acb05662cea9e3935cb29b03e182cbfd72ac2c30251c8617af8e1797c2a4892fb22140
DCDC Board	v1.x.x <sup>[1]</sup>	30a19de65d73fbae4357087af41440bac2f5adbdc2168c53326ab46c95cb6ebf2687addacb7a968dbbd1af744f69af238a9058988813083add3b4b71f56f20de
Relay Board	v1.x.x <sup>[1]</sup>	fc4d013f18b57aedc8b25cc5d20b0b2cbbc77f3181fc6ba989a351c0529be9e67b32a5525608881ed7bb1b011df09a71ddad3cbe162b75ff12f4b9b3553618e4
Display	v1.x.x <sup>[1]</sup>	a95a59d9a3d5e6798a7a80f7b73952a82df44f5d846efaed42e51419f1587dfb62de264d2d7dfa294f267b609a75180eab217408399ea6551a2402b5d4a803c1

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Board	Firmware version	Hash code
Pulser	v1.x.x <sup>[1]</sup>	81fd83a99f1564014246f0350b523881ff283dabb31327449957e20de1109da07529769a3dfb84beb1faf336c8e0b000468a4cac685f84b730bfc8e00e48091
KEY_BRD Board	v1.x.x <sup>[1]</sup>	58794cc6090cbd33e9b79512d5e90c2a5a0c6db47d5e51c3b947f339ebb12267bb42e5829f97651cea31a06ba0ea814ae1a608bdb1fa330bf1324d0fbd204636

<sup>[1]</sup> Where x could be any number and is based on the legally non-relevant part of the software.

### Software version verification

- The software can be displayed on the segment display or the accompanying LCD display. The software can be displayed on the segment display through the following Menu navigation: On the keypad of the dispenser press **A** → **1** → **M** → **OK** this puts the dispenser in maintenance mode and a login screen appears on the screen, once logged in by a user with sufficient rights using login id, password and a onetime password (OTP) press **6** for "ECAL Operations" and then **11** for Firmware versions.

On the LCD display the software version can be displayed using the following procedure: access the **SmartROA Platform** using the URL <https://erp.smartroa.com/>.

A login screen appears on the LCD screen, once logged in by a user with sufficient rights using login id, password and a onetime password (OTP) → "**Retail Outlet management**" → select the correct Dispenser in the drop-down menu → "**Activate Maintenance Mode**" → A login screen appears on the LCD screen, once logged in by a user with sufficient rights using login id, password and a onetime password (OTP) → "**DU Details**"

- Optionally, a feature enabled for a specific region/geographical location to meet the local regulatory compliances, the software version can be displayed on the segment display & the accompanying LCD display. The software can be displayed on the segment display and can be printed out through the following Menu navigation: On the keypad of the dispenser press **S** → **2** → **W** → **OK**, then press **1** to Print and **2** to exit the window.

On the contrary the software version can also be displayed on the LCD display through the following Menu navigation:

On the keypad of the dispenser press **S** → **2** → **W** → **OK**, this directly displays the software version in the LCD screen.