

Point Of Sales system, SPINpos

Issued to

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In respect of (part of instrument)

The SPINpos system is an indoor Point Of Sale (POS) system (connected to a DOMS PSS 5000 acting as forecourt controller), a purely digital self-service device (SSD) intended for use with fuel dispensers for motor vehicles.

Characteristics/rated operating conditions

The evaluated part of a measuring system for LOTW is a self service device for direct sales, interruptible, attended post-payment including sale stacking. It includes a display for the sales clerk, a customer display and a printer.

Accuracy class: 0,5 or higher

In accordance with

- WELMEC Guide 8.8, 2017 "General and Administrative Aspects of the Voluntary System of Modular Evaluation of Measuring instruments under the MID",
- WELMEC Guide 10.10, 2016 "Guide on evaluation of Purely Digital Parts" and
- WELMEC Guide 7.2, 2015 "Software Guide".

This Parts Certificate is the positive result of the applied modular approach under these WELMEC Guides, for a part of a measuring system for the continuous and dynamic measurement of quantities of liquids other than water.

This is not a MID Certificate (EU-type examination certificate according to Measuring Instruments Directive 2014/32/EU), but the MID requirements have been applied. The complete measuring system shall be subject to a conformity assessment procedure as described in MID.

This Parts Certificate is free to use by manufacturers of complete measuring instruments.

Applicable essential requirements of MID 2014/32/EU

- MID, Annex I Essential requirements
- MID, Annex VII (MI-005) Measuring systems for the continuous and dynamic measurement of quantities of liquids other than water (LOTW)

Harmonised standards and normative documents used

Applicable parts of the following normative documents referred to in the Official Journal of the European Union 2011/C33/01:

- OIML R 117-1 Edition 2007 (E), Dynamic measuring systems for liquids other than water

Certificate No. SC0796-18 | issue 1 | 2018-10-31

RISE Research Institutes of Sweden AB | Certification
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Further applied documents

- The Swedish Measuring Instruments Regulation, STAFS 2016:1
- The Swedish Regulations and Guidelines concerning Measuring Systems for the Continuous and Dynamic Measurement of Quantities Other than Water, STAFS 2016:6
- RISE Certification Rules SPCR 181

Validity

Valid until October 31, 2028.

Miscellaneous

This issue of the certificate is the 1st edition.

The principal characteristics, approval conditions are set out in the appendix hereto, which forms part of the approval document. All the plans, schematic diagrams and documentations are recorded under reference files 8P06940. The evaluation report 8P06940-1 has been issued in accordance with WELMEC Guide 8.8, Voluntary system of Modular Evaluation.

Martin Tillander

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0 Conditions

The use of this Parts Certificate is limited to:

Combination with other parts of a measuring system (e.g. fuel dispenser) under the following conditions:

- DOMS PSS 5000 (Parts Certificate SC0257-15 issued by SP/RISE) is used as forecourt controller
- The other parts of the measuring system having an EC/EU-type examination certificate, Evaluation Certificate or Parts Certificate covering compatibility with DOMS PSS 5000
- The other parts of the measuring system having a National Type approval covering compatibility with DOMS PSS 5000

Other parties are free to use this PC.

The device must correspond with the following specifications:

1. Design of the device

1.1 Construction

POS description

SPINpos, an indoor Point Of Sale (POS) system is a part of a self service arrangement. SPINpos supports the following service mode and type of payment:

	Attended post-payment	Attended pre-payment	Unattended delayed-payment	Unattended pre-payment
SPINpos	yes	no	no	no

The POS is a self service device for direct sales, in an interruptible measuring system. It includes a display for the sales clerk, a customer display and a printer (parts inside the red line in Figure 3), and utilise DOMS PSS 5000 as a forecourt controller and for sales stacking.

SPINpos is used with fuel dispensers, and is handling legally relevant data from the dispenser. There is no direct communication between the POS and the fuel dispenser. In between there is a forecourt controller; DOMS PSS 5000. Several SPINpos may be connected to one DOMS PSS 5000.

The SPINpos software consists of an iOS application which is running on a general purpose iPad hardware.

For attended sale, the POS system provides an operator interface, which allows an operator to monitor the status of the pumps and control authorization and transaction processing. It is the responsibility of the Forecourt Controller to store and deliver the transactions to the POS. DOMS PSS 5000 also provides a short term storage (sales stacking).

If the PSS is informed that NO "primary indicator" is available, the PSS will not allow a pump to be authorized to start a new transaction. So, transactions must be paid and cleared before a new transaction can be started on a specific pump.

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Figure 1: SPINpos on a stand



Figure 2: SPINpos with customer display and printer

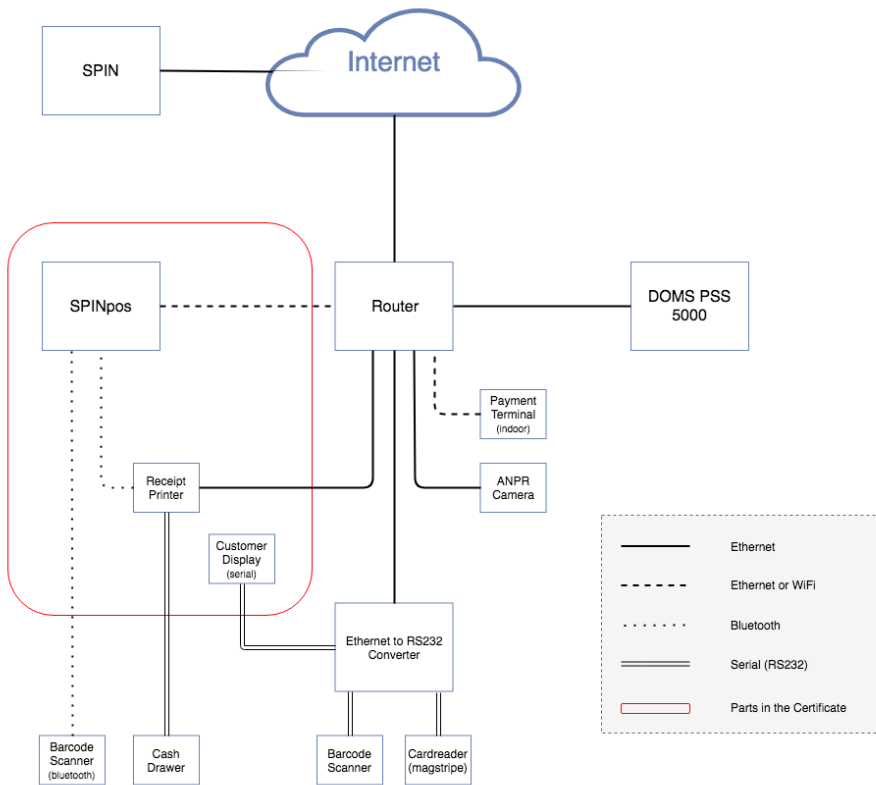


Figure 3: Schematic overview of SPINpos, peripherals and communication technologies in use. The parts in this certificate are shown within the red box.

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1.2 Components included

The hardware of the self-service device should comply with the EMC-directive and other applicable directives as specified in the Declaration of Conformity of the self-service device.

Computing Device	iPad Model A1474 or iPad Pro, released in 2015 or later
Operating System	Apple iOS 11.x or later
Application Software	SPINpos2, v0.1.5 or other version with equivalent functionality regarding applicable technical requirement according to WELMEC Guide 10.10
Customer Display (Serial interface)	ARTDEV, model VFD222 or equivalent with CE-marking
Receipt Printer (with serial or Bluetooth interface)	Star Micronics, model TSP100 or equivalent with CE-marking, under the condition that the functionality of the checking facilities for power off, decoupling/no serial communication, end of paper, is the same
Forecourt Controller	DOMS PSS 5000 with Parts Certificate SC0257-15

Software specification according to WG 7.2:

Software type	U
Risk class	C
Extension	T, S, D

List of legally relevant software modules and checksum

Name	Architecture	Version	Checksum (UUID)
XLM	arm64	v0.7.4	12F8110F-710E-3236-85DF-340F59433A86

1.3 Optional equipment and functions subject to MID requirements

Not applicable

1.4 Technical documentation

For market surveillance the construction and included components are described in 1.1 and 1.2. The metrological software is identified by the checksum, which can be accessed according to 5.3.

1.5 Integrated equipment and functions not subject to MID

The following equipment may be connected to SPINpos (without change of this certificate):

- Router
- Cash drawer
- Serial (RS232) to Ethernet converter
- Card reader (optional)
- Barcode scanner (optional)
- EFT terminal
- ANPR camera (optional)

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2. Technical data

2.1 Rated operating conditions

POS intended for use with fuel dispensers for motor vehicles. Self service device for direct sales, interruptible, attended post-payment including sale stacking. It includes a display for the sales clerk, a customer display and a printer.

Measurement range

Scale interval, indicated and printed volume:

same as dispenser, but not smaller than 0,01 l

Scale interval, indicated and printed price:

same as dispenser, but not smaller than 0,01 "PRICE"

Accuracy class of measuring system

0,5 or higher

2.2 Other operating conditions

Not applicable.

3. Interfaces and compatibility conditions

The SSD with the following interface protocols was examined and found in compliance with WGs 8.8, 10.10 and 7.2.

- "Doms POS Protocol" (DPP) is used on top of TCP/IP for communication between the SPINpos and the Doms PSS 5000 forecourt controller.
- RS232 protocol is used for communication between the SPINpos and the customer display.
- "StarPRNT SDK" and "StarGraphic emulation" protocol is used on top of TCP/IP for communication between the SPINpos and the receipt printer.

The POS may only be used in a measuring system with:

- all volume and price indicating and printing devices having the same scale interval as SPINpos

4. Requirements on production, putting into use and utilisation

4.1 Requirements on production

No special requirements identified.

4.2 Requirements on putting into use

Functional test performed after each SPINpos installation on site:

1. Start the SPINpos App on iPad
2. Login as cashier
3. Check software versions and checksum according to 5.3

4.3 Requirements for consistent utilisations

No special requirements identified.

5. Control of the measuring tasks of the device in use

5.1 Documentation of the procedure

No special requirements identified.

5.2 Special equipment or software, if applicable

No special requirements identified.

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5.3 Identification of Hardware

The construction and included components are described in 1.1 and 1.2.

Software

The identifier for the legally relevant software (checksum in 1.2) can be presented on command by navigating to the POS Menu and choosing the “About option”. A new screen will be presented that shows cursory information about the SPINpos application in general, as well as the legally relevant software identifiers (uuid=checksum) and some metadata for the XLM framework.

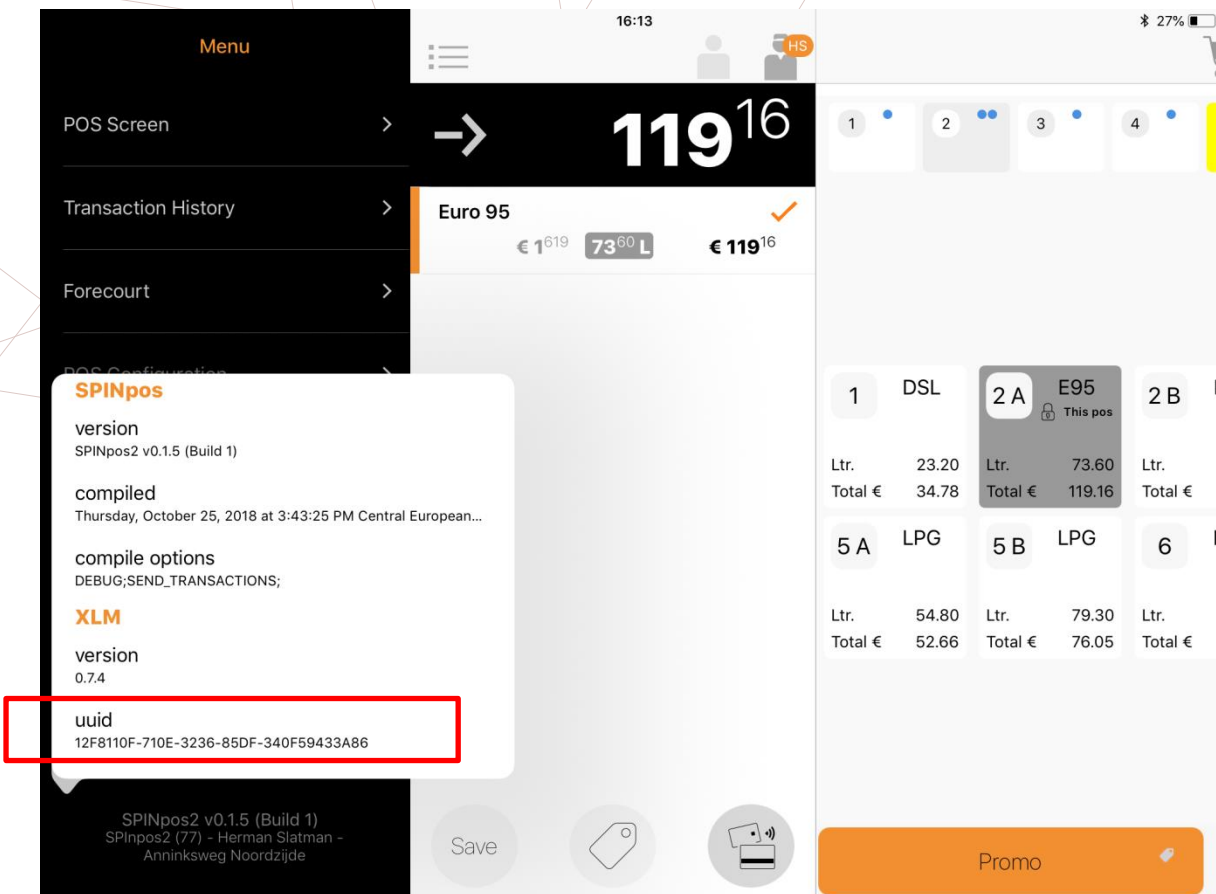


Figure 4: Screenshot with example of uuid=checksum within the red box.

5.4 Calibration-/adjustment procedure

Not applicable

6. Security measures

6.1 Sealing

SPINpos is not sealed.

6.2 Data logger

DOMS PSS 5000 is used for temporary storage (sale stacking).

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7. Labelling and inscriptions

7.1 Information to be borne by and to accompany the device

The marking plate/label mounted on DOMS PSS 5000 cabinet shall contain the following information:

- the name and address of the manufacturer
- the serial number of the device and year of manufacture
- the designation or type name
- the Parts Certificate number, **SC0796-18**, of the POS
- place for identification of the connected fuel dispenser(s)
- place for the verification sticker

7.2 Conformity marking in accordance to MID article 21

This Parts Certificate is not an EU-type examination Certificate. Therefore the forecourt controller must **not** be marked with the supplementary metrology marking "M xx", following the CE marking.

7.3 Further inscriptions, if necessary

No special requirements identified.

7.4 Evaluations carried out for this Parts Certificate

The evaluation under this certificate is recorded in Evaluation Report 8P06940-1 (referring to test and examinations in test report RISE 8P05877-1 and 8P05877-01).

A summary of the evaluation under this certificate is given below.

Description	Result	Remarks/notes
Relevant parts of the checklist OIML R117-1	*	RISE report 8P05877-1

Welmec 7.2 ¹⁾	Description	Result	Remarks/notes
Type P	Requirements on basic configuration	/	
Type U	Requirements on basic configuration	*	RISE report 8P05877-01
Extension L	Requirements on data storage	/	
Extension T	Requirements on interfaces	*	RISE report 8P05877-01
Extension S	Requirements on software separation	*	RISE report 8P05877-01
Extension D	Requirements on software download	*	RISE report 8P05877-01
Extension I	Specific software requirements	/	

¹⁾ Requirement/type according to Welmec Guide 7.2

* Fulfils requirements / = Not applicable

8. Revision history

Issue 1	2018-10-31	Certification of a POS system SPINpos, first issue
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