



# Evaluation Certificate

Certificate for a part of a measuring system for LOTW  
No. 107027

## Payment terminal (OPT) for cards and bank notes, Wayne iXPay™ secure payment platform

### Issued to

Wayne Fueling Systems Sweden AB, P O Box 50559, SE-20215 Malmö, Sweden

### In respect of (part of instrument)

Outdoor Payment Terminal (OPT) device for cards and bank notes, 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, unattended delayed payment and prepayment, including a printer.

Accuracy class	0,5
Mechanic class:	class M1
Electromagnetic class:	class E1
Ambient temperature limits:	-40/-25°C to +40/55°C
Humidity:	condensing
Location:	open

### In accordance with

WELMEC Guide 8.8, Issue 2 "General and Administrative Aspects of the Voluntary System of Modular Evaluation of Measuring instruments under the MID".

This Evaluation Certificate is the positive result of the applied voluntary system of modular evaluation, according to WELMEC Guide 8.8, 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 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 Evaluation Certificate may only be used in combination with fuel dispensers and other SSD's (Self Service Devices), POS et c manufactured by Wayne Fueling Systems Sweden AB or after permission of Wayne Fueling Systems Sweden AB.

### Applicable essential requirements MID 2014/32/EU

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

Certificate no 107027 edition 5. Date of issue: January 12, 2017

### SP Technical Research Institute of Sweden

Box 857, SE-501 15 Borås, Sweden  
Phone: +46 10-516 50 00  
E-mail / internet: info@sp.se / www.sp.se

This certificate may not be reproduced other than in full, except with the prior written approval by SP. The certificate, including appendix, consists of 9 pages where this is page 1 7P00277





# Evaluation Certificate

Certificate for a part of a measuring system for LOTW  
No. 107027

## Harmonised standards and normative documents used

Applicable parts of the following normative documents referred to in the Official Journal of the European Union 2006/C 269/01 and 2011/C33/01:

- OIML R 117 Edition 1995 (E), Measuring systems for liquids other than water
- OIML R 117-1 Edition 2007 (E), Dynamic measuring systems for liquids other than water

Further applied documents:

- WELMEC 7.2, Software Guide (Issue 4)
- The Measuring Instruments Regulation, STAFS 2016:1
- Regulations and Guidelines concerning Measuring Systems for the Continuous and Dynamic Measurement of Quantities other than Water, STAFS 2016:6
- SP's Certification Rules SPCR 181

## Validity

Valid until August 28, 2023.

## Miscellaneous

This issue of the certificate is the 5<sup>th</sup>, extended edition, and replaces earlier issues. The first edition was issued on August 28, 2013.

*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 PX25469, 3P07735, 4P02524, 5P03646 and 7P00277. The evaluation report PX25469-01 has been issued in accordance with WELMEC Guide 8.8, Voluntary system of Modular Evaluation.*

## SP Technical Research Institute of Sweden Certification

Lennart Aronsson  
Product Certification Manager

Kerstin Mattiasson  
Certification Officer

Certificate no 107027 edition 5. Date of issue: January 12, 2017

### SP Technical Research Institute of Sweden

Box 857, SE-501 15 Borås, Sweden  
Phone: +46 10-516 50 00  
E-mail / internet: info@sp.se / www.sp.se

This certificate may not be reproduced other than in full, except with the prior written approval by SP. The certificate, including appendix, consists of 9 pages where this is page 2 7P00277





# Evaluation Certificate

Certificate for a part of a measuring system for LOTW  
No. 107027 – Appendix

## 0 Conditions

The use of this Evaluation Certificate is limited to:

Combination with “any” fuel dispenser/POS manufactured by Wayne Fueling Systems Sweden AB under the following conditions:

- The communication protocols defined in this certificate are used
- The fuel dispenser/POS having an EC-type examination certificate covering compatibility with the communication protocol used
- The fuel dispenser/POS having a National Type approval covering compatibility with the communication protocol used

Other parties may use this EC only with written permission of Wayne Fueling Systems Sweden AB, PO-Box 50559, SE-202 15 Malmö, Sweden.

The device must correspond with the following specifications:

## 1 Design of the device

### 1.1 Construction

#### Payment terminal description

Wayne iXPay™ secure payment platform is a part of a self service arrangement. It supports the following service mode and type of payment:

	Attended post-payment	Attended pre-payment	Unattended delayed-payment	Unattended pre-payment
Wayne iXPay™	no	no	yes	yes

The payment terminal is a self service device for unattended delayed payment (card) and prepayment (bank notes), direct sales, in an interruptible measuring system. It includes a printing device. It does not include a memory device.

The payment terminal is peripheral and connected to a site controller/point of sale system (master) through serial communication, multi-drop link. Physical link is LAN/Ethernet, RS485 or RS422 serial communication.

It can be single or double-sided. It can be mounted in a Wayne Helix fuel dispenser, (picture 1) or be a separate device, named HeliX Pay Freestanding (picture 2 and 3).

At unmanned stations Wayne Fusion forecourt controller (FC), EC 107024, may be installed inside the payment terminal, type CBC (Card and Banknote Comforti).

Certificate no 107027 edition 5. Date of issue: January 12, 2017

### SP Technical Research Institute of Sweden

Box 857, SE-501 15 Borås, Sweden  
Phone: +46 10-516 50 00  
E-mail / internet: info@sp.se / www.sp.se

This certificate may not be reproduced other than in full, except with the prior written approval by SP. The certificate, including appendix, consists of 9 pages where this is page 3 7P00277



# Evaluation Certificate

Certificate for a part of a measuring system for LOTW  
No. 107027 – Appendix



Picture 1: Wayne iXPay™ secure payment platform installed in Wayne Helix 5000 Fuel dispenser



Picture 2: HeliX Pay Freestanding CB including bank note terminal



Picture 3: HeliX Pay Freestanding CBC including bank note terminal

## 1.2 Components included in Wayne iXPay™ secure payment platform

iX CPU board (1, 2 pcs)	Wayne WM044945 or WM044946
Operating system	Microsoft Windows Embedded CE 6.0
Legally relevant software checksum iXPay	B7B6D4CC or 1AD68FF6 or 0C0FB06A or 52CCB6F3 or BCB381E7 or D14381DE
GLOBALcom Wayne.Lib.StateEngine.dll	71848503356FF59AF2CE 82232D605B998D1741AD, or 31FBEA03811F93D39BD2 CA2F0BA6A5F2E8284674
HostCE.dll	3159D874538FB830D2CB 9CB4205201FF334EEE03, or 6A2A8EB0934C7D001564 6105244B59EA895966E3

Certificate no 107027 edition 5. Date of issue: January 12, 2017

### SP Technical Research Institute of Sweden

Box 857, SE-501 15 Borås, Sweden  
Phone: +46 10-516 50 00  
E-mail / internet: info@sp.se / www.sp.se

This certificate may not be reproduced other than in full, except with the prior written approval by SP. The certificate, including appendix, consists of 9 pages where this is page 4 7P00277



# Evaluation Certificate

Certificate for a part of a measuring system for LOTW  
No. 107027 – Appendix

Printer.dll 45B12A14DCDF9057CDAF  
C8C8E4C472484F505655, or  
14A29445B9574D246EA4  
CBDF20C0376E2E0F75F5

ixPayLauncher.exe B7CA4E302432FA68FFDE  
89A3AB5ACBE42A3DB88C, or  
617C60A1B924176CDF33  
326A33B4835FF38DE103

<b>Pin-pad, including payment security function (0, 2 pcs)</b>	<b>Card reader (0, 2 pcs)</b>
Wayne Secure Payment Module (WU003228-000X or WU009556-000X)	Sankyo ICM330-3R9271 (WU001002-0001)
Hypercom K1200 (WM022921-000X)	Hypercom 2210 (WM017269)
<i>or equivalent with CE-marking and suitable climate specification, such as: (according to Wayne, not evaluated by SP)</i>	
XENTEO TERMINAL	XENTEO reader
ELME OPP-B50	ELME SCR-B50
GLOBALcom BI3000P	GLOBALcom BI3000R
Hypercom Artema P950	Hypercom Artema P167
DAVINCI	DAVINCI
Globacom BI3000P, PCI	Globacom BI3000R, PCI
VeriFone UX100	VeriFone UX300
VeriFone UX110	VeriFone UX300
Ingenico iUP250	Ingenico iUR250

Contactless reader (0, 2 pcs) XAC C150W (WU007054-0001) or equivalent  
with CE-marking and suitable climate specification

Printer (1, 2 pcs) Zebra Technologies KR203e (WU006648-000X) or  
Zebra Technologies KR403 (WM056578-000X)  
Zebra Technologies TTP2010 01971-000 (WM041685)

Display (1, 2 pcs) Kyocera TCG057QV1AC-H50 (WM022940) 5,7" or  
AU Optronics G057QN01 (WU 008545) 5,7" or  
AU Optronics G057VN01 (WM062086) 5,7" or  
NEC NL6448BC33-70F 10,4" (WU002840)

Certificate no 107027 edition 5. Date of issue: January 12, 2017

## SP Technical Research Institute of Sweden

Box 857, SE-501 15 Borås, Sweden  
Phone: +46 10-516 50 00  
E-mail / internet: info@sp.se / www.sp.se

This certificate may not be reproduced other than  
in full, except with the prior written approval by  
SP. The certificate, including appendix, consists of  
9 pages where this is page 5 7P00277



# Evaluation Certificate

Certificate for a part of a measuring system for LOTW  
No. 107027 – Appendix

Ethernet switch (0, 1 pc)	Wayne W8-403476 or similar
iX TFT interface board (1, 2 pcs)	Wayne WM020648-0001 or -0004
Softkey module 5,7" (1, 2 pcs) or Softkey module 10,4" (1, 2 pcs)	Wayne WM040524 Wayne WM045513 or WM050658-000X
Adaptor VGA, NEC (only for 10,4")	Wayne WU002299-0001
LED driver board (only for 10,4")	Wayne WU005427-0001
Heater (1 pc)	Wayne WM044405 (DBK Typhoon 40-290, 290 W, 10°C, switch = E) or similar
BOARD POWER PT4000 ASS'Y (+12V) (1pc)	Wayne WM017290-0002

### Components included when installed in Wayne Helix Fuel dispenser

Chassis (1 pc)	Wayne WU007618-0001
----------------	---------------------

### Components included when installed in HeliX Pay Freestanding C, CB or CBC

Bank note acceptor (BNA)	Japan Cash Machine Co., Ltd, iVizion Series (WM044957)
Power supply (1pc)	Channel Well Tech. UAS150B (WM027313-0001)
Heater lower compartment (2 pc for BNA)	Wayne WM044405 (DBK Typhoon 40-290, 290 W, 10°C, switch = E) or similar
Chassis (1 pc)	Wayne WM052349-0001 (Double sided and CBC), or Wayne WM046847 (Single sided), or Wayne WM061109 (Single or double sided)

### 1.3 Optional equipment and functions subject to MID requirements

At unmanned stations Wayne Fusion forecourt controller (EC 107024) may be installed inside the payment terminal, type CBC.

### 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 print data checksum (W&M CRC value), which can be accessed according to 5.3.

### 1.5 Integrated equipment and functions not subject to MID

Not applicable.

Certificate no 107027 edition 5. Date of issue: January 12, 2017

### SP Technical Research Institute of Sweden

Box 857, SE-501 15 Borås, Sweden  
Phone: +46 10-516 50 00  
E-mail / internet: info@sp.se / www.sp.se

This certificate may not be reproduced other than in full, except with the prior written approval by SP. The certificate, including appendix, consists of 9 pages where this is page 6 7P00277



# Evaluation Certificate

Certificate for a part of a measuring system for LOTW  
No. 107027 – Appendix

## 2 Technical data

### 2.1 Rated operating conditions

Payment terminal device for cards and bank notes, intended for use with fuel dispensers for motor vehicles.

Self service device for direct sales, interruptible, unattended delayed payment and prepayment, including a printer.

#### Measurement range

Scale interval, printed volume

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

Scale interval, printed price

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

#### Accuracy class of measuring system

0,5 or 1,0

#### Environments classes / influence quantities

Mechanic:

class M1

Electromagnetic:

class E1

Ambient temperature limits, all models:

-40°C to +55°C

except:

HeliX Pay Freestanding CBC

-25 °C to +55 °C

Terminals with Zebra printer KR403

-40 °C to +40 °C

and TTP2010

Humidity:

condensing

Location:

open

### 2.2 Other operating conditions

Not applicable

## 3 Interfaces and compatibility conditions

Communication with other parts of a measuring system (e g POS-systems) using one of the following protocols: TCP/IP XML(red board), DART or Ljungmans Current Loop and Dart (TPB/CA) format for GLOBALcom.

Installation: Shielded communication cable with screen connected in both ends

SW protocol	Hardware
DART	RS485 on Red Board RS422 (with converter to RS485)
LJCL	RS422 (with converter to RS485)
TCP/IP	LAN PORT on Red Board

Certificate no 107027 edition 5. Date of issue: January 12, 2017

### SP Technical Research Institute of Sweden

Box 857, SE-501 15 Borås, Sweden  
Phone: +46 10-516 50 00  
E-mail / internet: info@sp.se / www.sp.se

This certificate may not be reproduced other than in full, except with the prior written approval by SP. The certificate, including appendix, consists of 9 pages where this is page 7 7P00277



1002  
ISO/IEC 17065

# Evaluation Certificate

Certificate for a part of a measuring system for LOTW  
No. 107027 – Appendix

The payment terminal may only be used in a measuring system with:

- all volume indicating and memory devices having the same scale interval as iXPay
- all price indicating and memory devices having the same scale interval as iXPay
- a memory device on which measurement data are registered (OIML R117-1 (2007), 5.10.3.1.1, 5.10.3.1.5, 5.10.3.2)
- a function that sends warnings from the checking facilities to the payment terminal for presentation on the display (OIML R117-1 (2007), 5.10.3.1.2)

## 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 of system link and printer may be performed in the factory according Wayne Manufacturing Test requirement specification.

### 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.

### 5.3 Identification of

- Hardware

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

- Software

The legally relevant software is identified by the checksum (W&M CRC value, see 1.2. The checksum is printer on the receipt. All legally relevant data are surrounded by ^ and "signed by the checksum; the 8 last characters after "C/S".

The Checksums for "GLOBALcom" are shown and/or printed on demand through a menu as per steps below.

At each terminal startup the check of the Softseal and Checksums take place. If there is a deviation the terminal is blocked until a new Seal is generated (storing the new Seal and Checksums). So at any time it is possible to verify if there were changes in Seal and Checksums and to verify that the Checksums are the ones mentioned under chapter 1.2.

Certificate no 107027 edition 5. Date of issue: January 12, 2017

**SP Technical Research Institute of Sweden**

Box 857, SE-501 15 Borås, Sweden

Phone: +46 10-516 50 00

E-mail / internet: info@sp.se / www.sp.se

This certificate may not be reproduced other than in full, except with the prior written approval by SP. The certificate, including appendix, consists of 9 pages where this is page 8 7P00277



# Evaluation Certificate

Certificate for a part of a measuring system for LOTW  
No. 107027 – Appendix

Steps to show/print checksums (and version) for “GLOBALcom”:

Open the door of printer and select “Chiave”.

Select “Info”.

Display or print the checksums: select “Bollo sw”.

(Display or print the Version: select “Versione sw”.)

Checksum: - keys “Indietro” and “Avanti” show module checksum,  
- select “Stampa” to print the report with all module checksum.

(Version: - select “Stampa” to print the report with data.)

## 5.4 Calibration-/adjustment procedure

Not applicable

## 6 Security measures

### 6.1 Sealing

The payment terminal is not sealed.

### 6.2 Data logger

The payment terminal may only be used in a measuring system with a memory device on which measurement data are registered (OIML R117-1 (2007), 5.10.3.1.1, 5.10.3.1.5, 5.10.3.2)

## 7 Labelling and inscriptions

### 7.1 Information to be borne by and to accompany the device

The marking plate/label mounted on the device shall contain the following information:

- the name and address of the manufacturer
- the serial number of the payment terminal and year of manufacture
- the designation or type name
- the Evaluation Certificate number, **107027**, of the payment terminal
- the ambient temperature range
- mechanical class
- electromagnetic class
- place for identification of the connected fuel dispenser(s)
- place for the verification sticker
- additionally the Evaluation Certificate number, **107024**, if Wayne Fusion forecourt controller is installed inside the payment terminal (type CBC)

### 7.2 Conformity marking in accordance to MID article 17

This Evaluation Certificate is not an EC-type examination Certificate. Therefore the payment terminal 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.

Certificate no 107027 edition 5. Date of issue: January 12, 2017

**SP Technical Research Institute of Sweden**

Box 857, SE-501 15 Borås, Sweden

Phone: +46 10-516 50 00

E-mail / internet: info@sp.se / www.sp.se

This certificate may not be reproduced other than in full, except with the prior written approval by SP. The certificate, including appendix, consists of 9 pages where this is page 9 7P00277