



# CERTIFIKAT

No. 10 70 23

## EVALUATION CERTIFICATE (certificate for a part of a measuring system for LOTW)

### Payment terminal (OPT) for cards and bank notes, Wayne iXPay

#### Issued to

Dresser Wayne AB  
Hanögatan 10, SE-211 24 Malmö, Sweden  
(Limhamnsvägen 109, SE-216 13 Limhamn, Sweden)

#### In respect of (part of instrument)

Payment terminal 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/non-condensing
Location:	open/closed

#### 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 (EC-type examination certificate according to 2004/22/EC), 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 Dresser Wayne AB or after permission of Dresser Wayne AB.

#### Applicable essential requirements

- 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)

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SP Technical Research Institute of Sweden

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1002  
EN 45 011



# CERTIFIKAT

No. 10 70 23

## 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 D 11 Edition 2004 (E), General requirements for electronic measuring instruments
- 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 2006:4
- Regulations and Guidelines concerning Measuring Systems for the Continuous and Dynamic Measurement of Quantities other than Water, STAFS 2006:9
- SP's Certification Rules SPCR 181

## Validity

Valid until June 10, 2018.

## Miscellaneous

This issue of the certificate is the 9<sup>th</sup>, extended, edition, and replaces earlier issues. The first edition was issued on June 10, 2008.

*The principal characteristics, approval conditions are set out in the appendix hereto, which forms part of the approval documents and consists of 7 pages. All the plans, schematic diagrams and documentations are recorded under reference files MTvP705541. The evaluation report MTvP705541-02 has been issued in accordance with WELMEC Guide 8.8, Voluntary system of Modular Evaluation.*

Borås, February 16, 2012

**SP Technical Research Institute of Sweden  
Certification**

Lennart Aronsson  
Certification Manager

Kerstin Mattiasson  
Certification Officer

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## 0 Conditions

The use of this Evaluation Certificate is limited to:

Combination with "any" fuel dispenser/POS manufactured by Dresser Wayne 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 Dresser Wayne 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

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 RS485 or RS422 serial communication.

It can be single or double-sided and mounted directly on a fuel dispenser (picture 1) or be a separate device (picture 3 and 4).



Picture 1: Terminal mounted on fuel dispenser



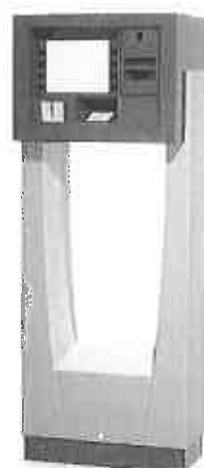
Picture 2: Terminal with GLOBALcom module



Appendix to  
EVALUATION CERTIFICATE - No. 10 70 23  
dated February 16, 2012



Picture 3: Freestanding device, small display



Picture 4: Freestanding device, large display

1.2 Components included

Card reader (1, 2 pcs)

Hypercom H2210 (WM017269) (Insertion) or Hypercom/Sankyo ICT3Q8-3A0260 (Motorized) or GLOBALcom BI 3000 or equivalent with CE-marking and suitable climate specification (\*such as XENTEO reader, or PANASONIC HYBRID or ELME SCR-B50)

Bank note acceptor (BNA)

Japan Cash Machine Co., Ltd, EBA-34 or Japan Cash Machine Co., Ltd, WBA-25-LD2

Chassis (1 pc)

Dresser Wayne P@P box WM017916 (5,7") or Dresser Wayne P@P box WM018379 (10,4")

iX CPU board (1, 2 pcs)

Dresser Wayne WU000998 (US 891147-002) (Blue board) or Dresser Wayne WU000893 (Red board)

Operating system

Micro Soft Windows CE 5.0 (Blue board)  
Micro Soft Windows CE 6.0 (Red board)

Legally relevant software checksum  
iXPay

EMV Ready: AD09 or 987D or AA00 or 9DBD or D4CO or 1FF0 or 6C17 or 98A7

Blue board: 86C50228 or 49AF34CC or 66C7DC68

Red board: B7B6D4CC or 1AD68FF6



Appendix to  
EVALUATION CERTIFICATE - No. 10 70 23  
dated February 16, 2012

GLOBALcom	
Wayne.Lib.StateEngine.dll	238B7119BA3D3F80D74D ECD084F541404B846A27 or F8E6385261EE81AB02D3 A4303605C19EB9C997DE
HostCE.dll	CFB0C328CF459ED02E76 2D32072A5BD2708E8C7F or F0EA6503BFF790D89BB4 A56DAEA7980F29DD569A or 755FEF5C332A2BF6E669 B0F554660211F58425DD or B04D88807FD34792B0F0 03395AFA40AEE0E5EACF
Printer.dll	F5A33B57735EBB40BA7F 677D54763B669285BA3C or 8DA313E42781C7C5A758 35DFD51D784E04A35D64 or 5F7E9AA1FA144B91B6AA C8F0C8DBB2A4480E4DCC
ixPayLauncher.exe	7BC4C4E0E16F9FAAC13B 9557A628BF5E73A2AD70 or A53102FDBDEA380F08D9 AD7EFB6675F57D385FC3 or 5FB9852F215369A86973 F6DB3CCF2C9C6C73FC4A
Display (1, 2 pcs)	Kyocera TCG057 (WM022940) 5,7" or Sharp VGA LQ104V1DG21 (TFT 10,4") WM023502 or NEC NL6448BC33-70F 10,4" (WU002840)
Ethernet switch (0, 1 pc)	Adam-6520 or similar
Heating fan (1 pc)	Ω DBK FGC1633 Cirrus 40 2 300W or similar (WM 000428-0003 Rev 02)
iX daughter board TFT_LCD (1, 2 pcs)	Wayne US 890770-001 (403478)
iX TFT interface board (1, 2 pcs)	Dresser Wayne WM020648-0001
RS485/RS232 Converter interface to RS422	Dresser Wayne WM023618-0001



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Softkey module 5,7" (1, 2 pcs) or Softkey module 10,4" (2, 4 pcs)	Dresser Wayne WM020671 or US 888627-001
Keyboard 4x4 (1, 2 pcs)	Hypercom K1200 (WM022921-0001) or GLOBALcom BI 3000 or equivalent with CE- marking and suitable climate specification (*such as SAGEM INT1315-4240 or XENTEO TERMINAL or ELME OPP-A40 or ELME OPP- B50)
Mains filter (0, 1 pc)	Shaffner FN2010-3-06 (WM000418)
Power DC/DC Converter board (1, 2 pcs)	Dresser Wayne 177810
Power supply (1pc)	APS 150 W WM009864 (only with mains filter) or Channel Well Tech. UAS150B WM027313-0001 or Powerbox PBSE1071 WM027313-0001
Printer (1, 2 pcs)	Axiomh TPS (Wayne 403463) or Zebra Technologies TTP 2030 01973-000 (WM023728) or Zebra Technologies TTP 2010 01971-000 (WM041685)
Thermostat (1 pc)	Honeywell Elmwood Sensors Ltd 2455RBV 9117 740 Z45 05 L18C

\*according to Dresser Wayne, not evaluated by SP.

**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 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

**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



1002

EN 45 011



**Environments classes / influence quantities**

The ambient temperature limits, humidity and location for an individual terminal is limited by the component with the most restrictive requirements.

Mechanic:	All models	class M1
Electromagnetic:	All models	class E1
Ambient temperature limits:	All models except:	-40°C to +55°C
	• GLOBALcom	-25°C to +55°C
	• terminals with Japan Cash Machine WBA-25-LD2 bank note acceptor	-25°C to +55°C
	• terminals with Zebra printer or Red board	-40°C to +40°C
Humidity:	All models except:	condensing
	• terminals with Japan Cash Machine WBA-25-LD2 bank note acceptor	non-condensing
Location:	All models except:	open
	• terminals with Japan Cash Machine WBA-25-LD2 bank note acceptor	closed

**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

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.



1002  
EN 45 011



**System link**

#	Test	Notes
1	System link test	Connect the serial link to the test system. Check that the terminal is connected on the link and Opens for card sale

**Printer**

#	Test	Notes
1	Start a filling Select receipt print Make a filling	A ticket should be printed after completed filling.
2	Check blackening	The printing should be black with good readability
3	Remove paper roll	System should indicate out of paper
4	Insert an almost finished paper roll in the terminal	System should indicate out of paper low

**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). For later software versions (with software separation) 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". For earlier software versions (EMV Ready) the checksum (4 characters) is displayed at start of the terminal. If the calculated CRC deviates from the expected CRC during start-up, the terminal do not start.

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.

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

Open the door of printer and select "Chiave".

Select "Info".



1002  
EN 45 011





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 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, **10 70 23**, of the payment terminal
- the ambient temperature range
- mechanical class
- electromagnetic class
- place for the verification sticker

#### 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.