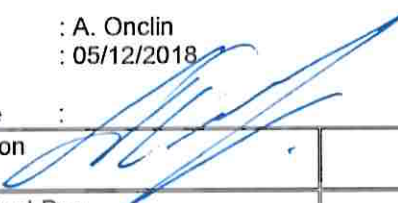


			Ref : MID Certificates
			Date : 05/12/2018
			Version: 1 Revision 21
Title: MID Certificates:			Checked / Validated:
<ul style="list-style-type: none"> o Evaluation Certificate TC7346 Fuel-Pos Self-Service device 			Name : A. Onclin Date : 05/12/2018 Signature : 
Date	Author	Revision	Justification
13/06/2008	NMi	0	<ul style="list-style-type: none"> • Fuel-Pos
02/09/2008	Nmi	1	<ul style="list-style-type: none"> • Extension of the sealing part
23/12/2008	Nmi	2	<ul style="list-style-type: none"> • Extension from the appendix with a new table to make it possible to connect the Fuel-Pos with dispensers provided with a "national approval" with certain electronic calculators and the belonging protocols depending on national legislation • OIML Test report CPC-809956 (functional tests on other calculators and belonging protocols) is added to the appendix
08/06/2009	Nmi	3	<ul style="list-style-type: none"> • Axiohm printer added • Editorial changes
27/10/2009	Nmi	4	<ul style="list-style-type: none"> • Communication protocols and interfaces are mentioned instead of the types of the calculator
27/01/2010	Nmi	5	<ul style="list-style-type: none"> • Schwelm ZSR protocol and ZEMI (ZSR-EPS-MUX Interface) added
15/03/2010	Nmi	6	<ul style="list-style-type: none"> • Reparation of revision 5

19/04/2010	Nmi	7	<ul style="list-style-type: none"> Sealing of the PC- and printer housings against unauthorized opening 	
17/01/2011	Nmi	8	<ul style="list-style-type: none"> New serial interfaces 	
23/06/2011	Nmi	9	<ul style="list-style-type: none"> Hermes added to paragraph 1.1.3 (Configuration 6) Sealings added to the description 	
03/11/2011	Nmi	10	<ul style="list-style-type: none"> Protocol IFSF-LON over TCP/IP 	
24/02/2012	Nmi	11	<ul style="list-style-type: none"> Editorial changes 	
19/07/2012	Nmi	12	<ul style="list-style-type: none"> Printer Datecs printers used as fiscal printer for Bulgaria and Romania 	
25/10/2012	Nmi	13	<ul style="list-style-type: none"> ProEda Multifill printer 	
04/03/2013	Nmi	14	<ul style="list-style-type: none"> Manufacturers address 	
19/04/2013	Nmi	15	<ul style="list-style-type: none"> S&B T20 SSD added 	
29/04/2014	Nmi	16	<ul style="list-style-type: none"> Extension with EPR 	
19/11/2014	Nmi	17	<ul style="list-style-type: none"> New printer New SW versions New OPT 	
03/03/2015	Nmi	18	<ul style="list-style-type: none"> New SW versions 	
14/11/2016	NMi	19	<ul style="list-style-type: none"> RAID 	
19/11/2018	NMi	20	<ul style="list-style-type: none"> Connection with Fusion 	
04/12/2018	NMi	21	<ul style="list-style-type: none"> New address manufacturer 	



Evaluation Certificate

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Issued by	NMi Certin B.V.
In accordance with	<ul style="list-style-type: none">- WELMEC guide 8.8 "General and Administrative Aspects of the Voluntary System of Modular Evaluation of Measuring instruments under the MID".- OIML R117-1 Edition 2007 (E) "Dynamic measuring systems for liquids other than water".- WELMEC 10.10, 2016 "Guide on evaluation of Purely Digital Parts"
Producer	Tokheim Sofitam Applications S.A.S. Immeuble Le Cézanne Paris Nord, 31-35 Allée des Impressionnistes BP 45027 Villepinte, France 95912 Roissy Ch de Gaulle Cedex France
Measuring instrument	A self-service device for use as a part of a fuel dispenser, LPG dispenser and/or other liquid dispensers (e.g. AdBlue). Producer mark and/or name : Tokheim Designation : Fuel POS
Remarks	Further properties are described in the annexes: Description and appendix TC7346 revision 21; Documentation folder TC7346-10. - This revision replaces the previous revisions; - The documentation folder is not changed.

Issuing Authority

NMi Certin B.V.
4 December 2018


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1. General information on the self-service device

Properties of the self-service device, whether mentioned or not, shall not conflict with the legislation.

This Evaluation Certificate is the positive result of the applied voluntary, modular approach, for a component of a measuring instrument, as described in WELMEC guide 8.8.

The complete measuring instrument must be covered by an EC type examination certificate or EU-type examination Certificate.

1.1 Essential parts

1.1.1 The following table presents the different hardware components of the self-service device, indicating for each component whether it is essential or conditional:

Component description	Function / Consists of entry	Remarks
UPS (Uninterruptable Power Supply)		
UPS	For emergency power supply of the computer (CIS- or Fuel POS terminal) and the optional receipt / journal printer). For each computer an UPS is applied. Different manufacturers (with CE-marking) may be applied under the condition that the specifications etc. keeps the same; see 7346/16-02, page 1.	essential component
CIS-terminal		
CIS-terminal	Contains the storage of the central database of the Fuel POS with storage of shop articles, black lists, credit card payments etc. and built-up as follows:	
	Computer: of different manufacturer's with required CE-marking.	conditional component
	Serial interface: for communication with the different peripheral Fuel POS equipment and the (below mentioned) dispensing protocols; see documentation 7346/16-06.	essential component
	Network interface: For communication between the CIS-, POS-terminal, BOS and video control via a LAN-network; see documentation 7346/16-06.	essential component
POS-terminal (self service device)		
POS-terminal	For calling up and payment of the dispenser transactions and for selling of shop articles. Takes care of stopping, blocking and releases of the dispensers etc. and built-up as follows :	
	Computer: of different manufacturer's with required CE-marking.	conditional



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Component description	Function / Consists of entry	Remarks
	<p>Serial interface: Fitted in the computer for connection of the Fuel POS for example with the customer display, receipt/journal printer resp. receipt printer and PIN-Pad. Furthermore for communication with the different peripheral Fuel POS equipment and the dispensers (protocols) Different manufacturer's with required CE-marking may be applied; see documentation 7346/16-06.</p>	essential component
	<p>Network interface: Fitted in the Fuel POS terminal for communication between the POS-terminals and the CIS-terminal; see documentation 7346/16-06.</p>	conditional component
	<p>Display for the seller: A computer display used for presentation of information for the seller (optional with a "touch screen" possibility). Different manufacturers with required CE-marking may be applied; see the documentation 7346/16-02, page 3.</p>	conditional component
	<p>Customer display: for presentation of information for the customer, such as dispenser-information (dispenser number, product, volume, amount and (sub)total etc.) Customer displays (with CE-marking) of different manufacturer's may be applied under the condition that the checking facilities (for power off, uncoupling/no serial communication, etc. keeps the same; see documentation 7346/16-02, page 3.</p>	conditional component
	<p>Keyboard (optional): for input of information such as releases, stopping and payment of dispensers. Different manufacturers with required CE-marking may be applied; see documentation 7346/16-02, page 1.</p>	conditional component
	<p>Card reader: for reading and payment via credit- and debit cards and for presenting of personal cards which use the system. Card readers (with CE-marking) of different manufacturer's may be applied; see documentation 7346/16-02, pages 4, 6 and 7.</p>	conditional component
	<p>Receipt / Journal printer: For printing the registration for customer and seller. Different manufacturer's (with CE-marking) may be applied under the condition that the checking facilities (for power off, uncoupling/no serial communication, end of paper etc. keeps the same.</p>	conditional component
	<p>Receipt printer: For printing the registration for the customer. Different manufacturer's (with CE-marking) may be applied under the condition that the checking facilities (for power off, uncoupling / no serial communication, end of paper etc. keeps the same.</p>	conditional component
	<p>Electronic journal: Always available for electronic storage of the registration of the seller mostly on the hard-disc of the PC. Different manufacturers with required CE-marking may be applied under the condition that the checking facilities keep the same (CRC-check etc.)</p>	essential component



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Component description	Function / Consists of entry	Remarks
	<p>Pin Pad (optional): For reading debit and credit cards and for entering the PIN-code en further information during payment via these cards. Different manufacturer's with required CE-marking may be applied under the conditions:</p> <ul style="list-style-type: none"> the serial protocol keeps the same ; Pin-Pad transactions are not possible when the belonging printer is not print-ready (checking facilities for power off, uncoupling/no serial communication, end of paper etc.). <p>See documentation 7346/16-02, pages 4, 6 and 7.</p>	conditional component
OPT or DIT (optional)		
OPT or DIT (optional)	<p>The OPT (Outdoor Payment Terminal) and the DIT (Dispenser Integrated Terminal) are almost identical devices and used for delayed payment. There are also OPT's provided with a computer and a "touch screen" designate as "IQ6000" (see documentation 7346/16-05, page 6) or "Crypto IQ" (see documentation 7346/17-02. The functionality is the same as the standard OPT/DIT. They are built-up as follows:</p>	
	Computer: of different manufacturer's with required CE-marking.	conditional component
	Card reader: of different manufacturers with required CE-marking	conditional component
	Contactless smart card reader (optional): of different manufacturers with required CE-marking	conditional component
	Pin-Pad: of different manufacturer's with required CE-marking, for entering the PIN-code and further information during payment via cards.	conditional component
	<p>Receipt printer built-up as follows: Print head: For printing the registration for the customer. The following receipt printers may be applied: Manufacturer Citizen, type LT-280 or LT-281, with controller board Datac or Duromatic, type EM7001 or DUR7002 or; see the documentation 7346/16-05, pages 3, 4, and 6. Manufacturer Axiohm, type "CMCV RMDV MINI PRINTER PREMIUM SERIES" with controller board type compact board "CM-RM & CM-RM PREMIUM"; see the documentation 7346/16-05, pages 7, 8, 9, 10, and 11. Manufacturer Axiohm, type Triton 60 with integrated controller board; see the documentation 7346/16-05, pages 8, 9, 10, and 11. Manufacturer Datecs, type SK1-"xxx". This printer is also used as fiscal printer in Bulgaria and Romania; see the documentation 7346/16-05 pages 12 up to and including 17. (Remark: "xx" is a not relevant model extension).</p>	essential component



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Component description	Function / Consists of entry	Remarks
	Touch screen (optional): Applied in the IQ device and for presentation of customer information. With the touch screen the customer can give feedback to the system (f.i. to ask a customer receipt, to ask for and to give instructions etc.)	conditional component
BNA (Bank Note Acceptor)		
Bank Note Acceptor	For entering banknotes in the pre-payment self service situation	
	Computer: of different manufacturers with required CE-marking.	conditional component
	Bank Note Acceptor unit : of different manufacturer's with required CE-marking	conditional component
	Pin-Pad or touch screen: For entering the dispenser number and further information during the input cyclic. Different manufacturers with required CE-marking may be applied.	conditional component
	<p>Receipt printer built-up as follows: Print head: For printing the registration for the customer. The following receipt printers may be applied: Manufacturer Citizen, type LT-280 or LT-281, with controller board Datic or Duromatic, type EM7001 or DUR7002 or; see the documentation 7346/16-05, pages 3, 4, and 6. Manufacturer Axiohm, type "CMCV RMDV MINI PRINTER PREMIUM SERIES" with controller board type compact board "CM-RM & CM-RM PREMIUM"; see the documentation 7346/16-05, pages 7, 8, 9, 10, and 11. Manufacturer Axiohm, type Triton 60 with integrated controller board; see the documentation 7346/16-05, pages 8, 9, 10, and 11. Manufacturer Datecs, type SK1-"xxx". This printer is also used as fiscal printer in Bulgaria and Romania; see the documentation 7346/16-05 pages 12 up to and including 17. (Remark : "xx" is a not relevant model extension)</p>	essential component
Easy Fuel (optional)		
	EasyFuel Automatic Vehicle Identification System used as a TAG reader which can read TAG's attached to the vehicle tank for automatic vehicle recognition and connected via the "EPR-protocol".	conditional component
COB board dispensing		



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Component description	Function / Consists of entry	Remarks
	For communication between the connected dispensers and the CIS- and POS-terminal(s), placed in the CIS- or POS-terminal. Maximum 16 dispensers can be connected per COB board dispensing. A possible second board can be fitted in another PC. On the COB Board one of the following interface boards can be fitted:	
	FIB/Z-board: An interface fitted on the COB-board dispensing for communication of the dispensers with the self-service device. The following protocols are possible M6, ZSR.	essential component
	FIB/K board: A interface fitted on the COB-board dispensing for communication of the dispensers with the self-service device The following protocols are possible EPS, Kienzle, ATCL, DWCL, GB2W T10 Interface: essential for communication via Kienzle protocol. D-BOX: essential for communication via the GB2W protocol.	essential component
MUX		
The following MUX types are possible: - KCD-MUX - DLS2-MUX - KDR-MUX - EMI	A device for communication between the connected dispensers and the CIS or POS-terminal and built-up as follows:	
	<ul style="list-style-type: none"> • Microcomputer-system: coordinates the messaging between the connected devices • Interfaces: for connection of the different devices such as the dispensers, CIS-terminal or POS-terminal; see documentation 7346/16-06. • Power Supply: For power supply of the MUX. Possible protocols: KCD-MUX: EPS, Eedac, Sedac, UDC-VE DLS2-MUX: Edac, Sedac, 82D, UDC-VE, EIN KDR-MUX: parallel via pulses (EPS2, mechanical pumps) EMI : EPS	essential component
LON Board (optional)		
	Takes care for the connection of the Fuel POS with dispensers via the IFSF-LON protocol For the interfacing of not LON based calculators the following converters are optional fitted: <ul style="list-style-type: none"> • BetaControl Protocol converter EPS-IFSF • BetaControl Protocol converter UDC-IFSF • BetaControl Protocol converter Kienzle-IFSF 	essential component



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Component description	Function / Consists of entry	Remarks
Hardware Interfaces		
MPI interface	For parallel connection of dispensers with a mechanical calculating / indicating device and built-up as follows:	
	<ul style="list-style-type: none"> • Two pulsers: fitted on the volume- and amount shaft of the mechanical calculating/ indicating device; pulse value is 0,01 L and €0,01 • Interface: A parallel interface in which the volume- and amount pulses are counted and converted in the form of the Fuel POS self-service device and fitted in the dispenser or in the PCU-housing. 	essential component
	For the interfacing of the different protocols one or more of the following electrical level converters will be fitted:	
D-Box multiplexer	A device which takes care for the serial connection via the IFSF-LON protocol between the Fuel POS and the connected approved calculating/indicating devices / fuel dispensers.	essential component
Nuovo Pignone interface	For connection with calculating/indicating devices working with the Nuovo Pignone protocol.	essential component
Auto Tank Current Loop interface	For connection with calculating/indicating devices working with the Autotank Current Loop protocol.	essential component
GRAF multiplexer	For connection of the Fuel POS with (Logitron) calculating/indicating devices.	essential component
BIPCA interface	For connection with Tokheim EIN calculating/ indicating devices working with the EIN protocol.	essential component
MUXGROUPE	For connection with Tokheim EIN calculating/ indicating devices working with the EIN protocol, M3000, SEV2.	essential component
67 Box interface	For connection with (Tokheim UDC-VE) calculating/indicating devices.	essential component
U Box interface	For connection of the Fuel POS with the (Logitron) calculating/indicating devices. Also used in the "manual / standalone mode"	essential component
CN232 converter	For connection of the Fuel POS with calculating/ indicating devices via the following protocols: MUX, EPS, GB2W, DWCL, DART, ATCL, S&BV11, Pumalan	essential component
Galvanic Isolator	For connection of the Fuel POS with calculating/ indicating devices via the following protocols: UDC	essential component



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Component description	Function / Consists of entry	Remarks
ZSR-EPS-MUX Interface (ZEMI)	For connection with calculating/indicating devices working via the Schwelm ZSR-protocol	essential component
Dunclare-EPS-MUX Interface (DEMI)	For connection with calculating/indicating devices working via the Dunclare protocol	essential component
ROHE Box 69 Kienzle Interface	For connection with calculating/indicating devices working via the Kienzle GmbH ER3 protocol	essential component
ROHE Box 69 UDC Interface	For connection with calculating/indicating devices working via the Tokheim UDC protocol	essential component
DOMS PSS5000 Interface (optional)	DOMS PSS5000 Forecourt Interface (optional) for use of converting different dispenser protocols to the DOMS protocol (only for protocol conversion purposes) in direction of the Fuel POS PC and/or OPT (Standalone OPT's) and/or DIT; see documentation numbers 7346/20-01 and 7346/20-02. - Application Software: 489-11-1.00 - Legal Software versions: F3BE ¹	essential component
Dresser Wayne FUSION interface	Dresser Wayne "AB" FUSION Forecourt Interface (optional) for use of converting different dispenser protocols to the DART Wayne protocol or IFSF LON protocol in direction of the Fuel POS PC and/or OPT (Standalone OPT's) and/or DIT. See documentation number 7346/20-01. Software Version and Corresponding Checksum:: SW version and checksum - 1.01 and 13DC1BB - 1.15 and D8CCE630 - 1.0.0 and CA75316C - 1.4.10 and C063EA46 ²	essential component

Remarks:

- The POS- and CIS-terminal can be combined in one PC.
- The BNA and the Crypto-VGA OPT can be combined in one housing. In section 1.3 under "Essential shapes" the different configurations with the above mentioned parts are mentioned.

¹ The LAM checksum of the DOMS PSS5000 Forecourt Interface can be recalled from the idle menu, by pressing the Menu bar <> LAM PARAMETER W.1 <> LAM PARAMETER W.2. to view the LAM module version using the buttons on the controller inside the DOMS Box.

² The Legal SW on the Dresser Wayne Fusion can be recalled via the operating system <> Fusion application <> bin <> SSF.logs <> SSF.FC.Logs. Software version number and checksum is detected asfound the testing of the Dresser Wayne FUSION. The legal checksums can be viewed via eMIS on the Fuel POS.



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- The POS and Dresser Wayne AB "Fusion" can be integrated in one terminal or house. In section 1.3 under "Essential shapes" the different configurations with the above applicable parts are mentioned.

1.1.2 DOMS PSS5000 Forecourt Controller

The DOMS PSS5000 Forecourt Controller is constructed as:

- Mentioned in the Part Certificate SC0257-15, issued by SP Sweden.

1.1.3 Dresser Wayne AB "FUSION" interface Box

The Dresser Wayne AB "Fusion" Interface Box is constructed as:

- Mentioned in the Evaluation Certificate No 107024, issued by SP Sweden.

1.1.4 Legal software part

Software specification (refer to WELMEC guide 7.2):

- Software type U;
- Risk Class C;
- Extension L, T,S and D.

MID-Tab (with Fuel POS versions 23.00-23.02, 24.00-24.01):

Devices	MID Software versions	Date	Identification numbers (checksum)
Printer Service CIS/POS 1	TC7346.00	05/06/2008	39ED6983
Power Service CIS/POS 1	TC7346.00	05/06/2008	6A148DDE
Dispensing Service CIS/POS 1	TC7346.00	05/06/2008	4B6B631C
Printer Service POS 2	TC7346.00	05/06/2008	39ED6983
Power Service POS 2	TC7346.00	05/06/2008	6A148DDE
Dispensing Service POS 2	TC7346.00	05/06/2008	4B6B631C
Printer Service CVGA OPT 7	TC7346.00	10/06/2008	479BBBA7
Printer Service IQ OPT/BNA 32	TC7346.00	05/06/2008	39ED6983

MID-Tab (with Fuel POS versions 23.03, 24.02, 25.00 and higher):

Devices	MID Software versions	Date	Identification numbers (checksum)
Printer Service CIS/POS	TC7346.01	11/05/2009	20D142DF
Power Service CIS/POS	TC7346.01	11/05/2009	9CC283E6
Dispensing Service CIS/POS	TC7346.01	11/05/2009	D34051DA
Printer Service IQ	TC7346.01	11/05/2009	20D142DF
Printer Service CVGA	TC7346.00	10/06/2008	479BBBA7
Printer Service CVGA	TC7346.02	22/11/2010	FCED1827



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MID-Tab (with Fuel POS versions 31.00 and higher):

Devices	MID Software versions	Date	Identification numbers (checksum)
Printer Service CIS/POS	TC7346.01	11/05/2009	20D142DF
Power Service CIS/POS	TC7346.01	11/05/2009	9CC283E6
Dispensing Service CIS/POS	TC7346.01	11/05/2009	D34051DA
Printer Service IQ	TC7346.01	11/05/2009	20D142DF
Printer Service CVGA	TC7346.00	10/06/2008	479BBBA7
Printer Service CVGA	TC7346.03	31/01/2012	418DFA4E

MID-Tab (with Fuel POS versions 38.00 and higher):

Devices	MID Software versions	Date	Identification numbers (checksum)
Printer Service CIS/POS m	TC7346.02	03/07/2014	490FD0AE
Power Service CIS/POS m	TC7346.02	17/10/2014	D8B96AA0
Dispensing Service CIS/POS m	TC7346.02	03/07/2014	D51FBC33
Printer Service Crypto VGA OPT n	TC7346.03	31/01/2012	418DFA4E
Printer Service Crypto VGA OPT n	TC7346.00	10/06/2008	479BBBA7
Printer Service IQ OPT n	TC7346.02	03/07/2014	70C93D05
Printer Service Crypto IQ OPT n	TC7346.03	31/01/2012	418DFA4E

MID-Tab (with Fuel POS versions 38.04 and higher):

Devices	MID Software versions	Date	Identification numbers (checksum)
Printer Service CIS/POS m	TC7346.01	11/05/2009	20D142DF
Power Service CIS/POS m	TC7346.01	11/05/2009	9CC283E6
Dispensing Service CIS/POS m	TC7346.01	11/05/2009	D34051DA
Printer Service IQ OPT n	TC7346.01	11/05/2009	20D142DF
Printer Service Crypto VGA OPT n	TC7346.00	10/06/2008	479BBBA7
Printer Service Crypto VGA OPT n	TC7346.03	31/01/2012	418DFA4E
Printer Service Crypto IQ OPT n	TC7346.03	31/01/2012	418DFA4E

Note: m = 1 .. 8; n = 1 .. 32

Remark: Extension D is not applicable because the (main) sealing is the checksum numbers of the metrological relevant part of the software (there is no calculation of pump data in the Fuel POS system because the pump data comes straight from the calculator into the system).



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Example of the "MID-TAB-screen" with the applicable devices and the belonging MID software versions, date and checksum numbers:

Device	MID Software versions	Date	Software checksum
Power Service CIS/POS 1	TC7346.01	11/05/2009	9CC283E6
Dispensing Service CIS/POS 1	TC7346.01	11/05/2009	034051D4
Fusion Agaro Device	1.0.13		CC0B0440
Fusion AgroAbeledo	1.1.3		3CC089A8
Fusion Autotank	1.0.7		F4CD2905
Fusion Bennett-4E5	1.0.3		EBE09811
Fusion Bennett-CL	1.0.5		05B71609
Fusion Bogus	1.2.7		8D0C5D1A
Fusion CleanFuel	1.0.2		E169386F
Fusion DarkLama	1.0.12		88F43784
Fusion DORIS-3000	1.1.5		2D9FE90E
Fusion DongHua	1.0.2		43583DC1
Fusion EJIN	1.0.4		0202E14C
Fusion FDCMIDOperation	1.0.2		BE961E0C
Fusion Galileo	1.0.14		107581E6
Fusion Gilbarco	1.4.4		8D98639C
Fusion Hongyang	0.0.4		0AC05793
Fusion I7SF	1.2.6		635662F8
Fusion Kuppens	1.0.3		63D79E79
Fusion KoreaEnE	1.0.6		39E50D6D
Fusion Klaus	1.0.5		4CE0D47D
Fusion LarsenAndTonbra	1.0.5		2926487E
Fusion LectroCount	1.0.3		DEA79F9C
Fusion Liungmans	1.0.13		078C4CEC
Fusion Logitron	1.0.14		526C28E4
Fusion Maser	1.0.3		27C105E3
Fusion Masardt	0.9.5		98B7928A
Fusion Maxxon	1.0.2		19085329
Fusion Medco	1.0.5		837FA710
Fusion NuevoPignone	1.2.11		302ED673
Fusion OrpakPER	1.0.4		26A8941F
Fusion Orpak2FDC	1.2.0		0F9C1D01
Fusion Provalco	1.2.2		37986278
Fusion Sampi	0.0.3		D620744E
Fusion S5F-FC.exe	1.0.0		1F07D8FD
Fusion S5F-Printer Message.dll	1.0.0		E759E2B3
Fusion S5F-Spirit Ticket.Moduls.exe	1.0.0		9C9008A9
Fusion S5F-Spirit Ticket.Robot.exe	1.0.0		24FC0F55
Fusion S5F-Spirit.Waitr/dog.exe	1.0.0		2A38BA33
Fusion Stratema	1.0.8		8401580A
Fusion TatsunoMono	1.0.5		3606842F
Fusion TatsunoSunny	1.1.8		84212061
Fusion TeosidCR	1.0.10		02EE99E8
Fusion Tokheim-4FS	1.0.25		255E1466
Fusion TokheimZSR	0.0.4		08F64689

The software version is displayed from the eMIS Window menu "8-Diagnostics", option "2-Software Versions". A window similar to the one shown will be opened. The "General-tab" shows the general Fuel POS version information and depends on the installed version. The MID-tab shows the MID-specific version for each connected CIS, POS, OPT or Fusion Interface Box. So for each connected system that has a service running on it a line will be shown containing the device information (CIS, POS with POS-number, OPT with OPT-number or Fusion IB with Fusion IB numbers) the MID Software versions, and revision information as received from the Notified Body (NB) and the date and checksum (main sealing) of the service. The MID software version can be printed on the OPT receipt printer by pressing the "INFO-" and "OK-" key of the PIN-PAD or by pressing the Service logo (top left corner of the screen), followed by pressing the "RECEIPT-"button within 5 seconds and pressing on the next screen on the "RECEIPT-"button. The software fulfils the WELMEC guide 7.2.

1.1.5 Configurations of the self-service systems

The self service device of Tokheim, type Fuel POS, can be configured as follows:

Configuration 1: Integrated Fuel POS (used for Fuel POS, FuelConsole and FuelController Systems). It is the most complete POS (Point Of Sales) system running on a single PC. The POS and the CIS (Central Information System) are combined.

Configuration 2: Multi POS (used for large petrol stations) with a maximum of 8 POS systems. The CIS (Central Information System) can be either a separate PC system or integrated into a POS system.



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- Configuration 3: FuelConsole / Fuel Controller. This system is equal to an integrated Fuel POS with reduced software functionality (like shift reports and article programming)
- Configuration 4: FuelHomeBase (dedicated for use on unmanned petrol stations)
- Configuration 5: Mini-Fuel POS (Lap-Top version also for use on unmanned petrol stations)
- Configuration 6: Hermes
- Configuration 7: As mentioned above under Configuration 1 till Configuration 6 but (optional) extended with an "EasyFuel" Automatic Vehicle Identification System connected via the "EPR protocol" with the Fuel POS.
- Configurations 8: Fuel POS (SSD) with a Master Forecourt Controller PC terminal with one or more Point-Of-Sales (POS) terminal(s) and Dresser Wayne AB "FUSION" interface Box. IFSF FDC protocol and Dresser/Fusion serial interfaces with belonging serial protocols are used.
- Configurations 9: Fuel POS (SSD) with a Master Forecourt Controller PC terminal with one or more Point-Of-Sales (POS) terminal(s) and Dresser Wayne AB "FUSION" interface Box in one (called Fuel POS on Fusion). IFSF FDC protocol and Dresser/Fusion serial interfaces with belonging serial protocols are used.
- Configurations10: Fuel POS (SSD) with a Master Forecourt Controller PC terminal with one or more Point-Of-Sales (POS) terminal(s). DOMS PSS5000 interface Box and DOMS protocol with belonging DOMS serial interfaces are used.

Optional it is possible that the Fuel POS is connected with a "third party" external POS device and/or OPT/BNA device to release pumps and settle self service payments. This external POS and/or OPT/BNA device shall be mentioned in the EC type examination certificate of the dispenser or mentioned in this Evaluation Certificate no. TC7346.

See the appertaining Documentation folder.

Examples of connected external POS and/or OPT, BNA or combined OPT/BNA devices:

Producer	Type / Designation	Kind of Self Service Device	Printing device	Certificate
Tokheim S.A.S ProEda AG – Worb Switzerland	MultiFill	OPT, BNA or combination	MultiFill receipt printer	Parts Certificate No. 135-11222 issued by Schweizerische Eidgenossenschaft

1.2 Essential characteristics

1.2.1 Legal software functions:

- The self service device replaces the primary indications of the measuring instruments. Primary indications of the self service device are: operator display, customer display, receipts printers (indoor and outdoor).

- Memory device for the storage of the transaction data
- 1.2.2 This self service device was tested with the interface boards and protocols as stated in the table below. The self-service device may be connected with approved fuel dispensers, LPG-dispensers and other liquid (e.g. AdBlue) dispensers, provided with an electronic calculating/indicating device that uses one of these protocols:

Type interface / converter	Protocol
AutoTank Current Loop	• AutoTank Current Loop
Dresser Wayne Dart	• Dresser Wayne Dart
Dresser Wayne Current Loop	• Dresser Wayne Current Loop
EINF	• EIN
EPS-MUX	• EPS-MUX • Koppens EPS
Gilbarco	• Gilbarco GmbH/Logitron Pumalan
Gilbarco 2-wire	• Gilbarco 2-wire
IFSF-LON	• IFSF-LON
standard TCP/IP network components	• IFSF-LON over TCP/IP Network
M3000	• M3000
Nuovo Pignone	• Dresser Wayne / Nuovo Pignone
Scheidt Und Bachmann	• Scheidt Und Bachmann GmbH – V11 (Schnittstelle)
SEV	• SEV 82D
UDC-VE	• UDC-VE
VSCom Digibox 8-channel MUX-Groupe	• M3000 • EIN • SATAM
ZEMI	• Schwelm ZSR
DEMI	• Dunclare
ROHE BOX 69	• Kienzle ER3 • UDC
DOMS PSS5000	• Various protocols with pairing Hardware interfaces, see § 1.1.1 or Appendix A.
Dresser Wayne FUSION	• Various protocols with pairing Hardware interfaces, see § 1.1.1 or Appendix A.

1.3 Essential shapes

1.3.1 Environmental classes: M1 /E1

1.3.2 Ambient Temperature range: - 25 °C / +55 °C (OPT / BNA / DIT)
 +5 °C / +55 °C (POS / CIS)

1.3.3 Inscriptions

* Type plate

The following information is clearly visible on the type plate:

- the Evaluation Certificate number TC7346.
- manufacturers identification mark or trade mark
- type designation
- serial number and year of manufacture
- information concerning using circumstances (such as the temperature range)
- identification of the connected certified dispenser(s).

An example of the Type plate is shown in the documentation folder; see 7346/16-03.

Remarks:

The type plate is fitted and sealed on a main part of the self service device.

Identification stickers with the manufacturers identification mark or trade mark and the Evaluation Certificate number TC7346 are fitted on the display (screen) for the seller, customer display, indoor- and outdoor customer receipt printers

Parts of the inscriptions (except for the Evaluation Certificate number) may be stated on a separate Data Sheet belonging to the self service device.

1.4 Conditional parts

1.4.1 See in 1.1

1.5 Conditional characteristics

1.5.1 Kinds of exploitation.

1.6 Conditional shapes

1.6.1 Configuration schemes / overviews
See the Documentation folder TC7346-9.

1.7 Non essential parts

1.7.1 Router, Hub or switch

These parts can be fitted in a LAN-network to rule the network communication

1.7.2 The optional "CODAX" car wash device (with connection box, power supply and outdoor terminal)

1.8 Non essential characteristics

1.8.1 POS system

It is possible to sell fuel and/or shop articles via the cash register system(s)

2. Seals

- Sealing of the Type plate



- Checksum numbers (main sealing of the metrological relevant software part)
- The housing of any CE marked CIS PC may be sealed against unauthorized opening based on the examples hereunder (for those Self service devices which are put into use after 1 May 2010).



Flytech CIS



Flytech CIS



Dell CIS



Dresser Wayne Fusion Box

- Printer housings are sealed against unauthorized opening based on the examples hereunder (for those Self service devices which are put into use after 1 May 2010).



TM88 printer



TM88 printer



Axiohm printer

3. Conditions for conformity assessment

- The self service device must be constructed in accordance with this Evaluation Certificate and the appertaining documentation.
- Other parties may use this Evaluation Certificate only with the written permission of Tokheim.

4. Reports

An overview of performed tests and results is given in the test reports:

- No. CPC-707187 issued by NMI Certin B.V.
- No. CPC-809956 issued by NMI Certin B.V.
- No. CPC-9200019 issued by NMI Certin B.V.
- No. CPC-10200014 issued by NMI Certin B.V.
- No. CPC-10200014-02 issued by NMI Certin B.V.
- No. NMI-10200988-01 issued by NMI Certin B.V.
- No. NMI-1902424-01 issued by NMI Certin B.V.
- No. NMI-1902424-02 issued by NMI Certin B.V.



Appendix A

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Depending on national legislation the self-service device may also be connected to dispensers provided with a national approval, having one of the following electronic calculating / indicating devices, with one of the belonging protocols as tested in the above (on page 1) mentioned OIML R117-1 Test reports CPC-707187 and CPC-809956:

Type	Protocol	
EPS3, EPS 5	Koppens EPS Current Loop EPS-MUX	
WWC	EPS-MUX	
Coca	IFSF-LON M3000 IFSF-LON <> Koppens EPS Current Loop	
UDC-VE	IFSF-LON <> UDC-VE	
EPSILON PHASE II	Gilbarco 2-wire IFSF-LON	
AUTOFLOW	ATCL Auto Tank Current Loop	
X2003	Dresser Wayne Dart	
DM1	EIN M3000	
SEV2	SEV D82 SATAM	
MFC	EIN	
JKR	EIN IFSF-LON	
PUMA HT	Pumalan	
T10, T10EX, T10/8	V11	
T10/8/V11-S, T10/8/J-V, T10/8/J-V-HL	V11 / IFSF LON	
T20	V11	
OTP Version E	Nuovo Pignone	

