

Issued by NMI Certin B.V.,
designated and notified by the Netherlands to perform tasks with respect to conformity procedures mentioned in Article 13 of Directive 2014/31/EU, after having established that the measuring instrument meets the applicable requirements of Directive 2014/31/EU, to:

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Measuring instrument A **Non-automatic weighing instrument**
Type : PCSK

Further properties are described in the annexes:
– Description T8471 revision 14;
– Documentation folder T8471-9.

Valid until 7 February 2024

Remark This revision replaces the earlier versions, except for its documentation folder.

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1 General information about the non-automatic weighing instrument

All properties of the non-automatic weighing instrument, whether mentioned or not, shall not be in conflict with the legislation.

1.1 Essential parts

The electronics;
 The Epelsa POS software;
 The third party POS software;
 The mechanical assembly with load cell.

Only one of the POS software package mentioned above has to be used in the non-automatic weighing instrument.

See block diagrams;

Number	Pages	Description	Remarks
8471/7-01	2	Block diagram for versions with MiniBPTC board	-
8471/11-01	2	Block diagram for versions with EPISCALE Board	-

All references made to MiniBPTC and/ or CS5530 boards can be replaced by the A+M board.

EMI protection measures:

- A/D board and Mini-BPTC board are shielded with a metal cover;
- A+M board are shielded with a metal cover;
- Mains filter on entrance of power supply;
- Ferrite on cable from Mini-BPTC board to PC board;
- Ferrite on cable from mains filter to power supply;
- Ferrite on ground wire from mains filter to power supply;
- Ferrite on cable from load cell to A/D board (counter scale with keyboard version only);
- Ferrite on cable from keyboard to PC board (counter scale with keyboard version only);
- Two ferrites on cable from front display to PC board (only counter scale model 20...).

1.2 Essential characteristics

Accuracy class	III
Maximum capacity	$3 \text{ kg} \leq \text{Max} \leq 30 \text{ kg}$
Verification scale interval	$e \geq 1 \text{ g}$
Weighing ranges (per weighing range or partial weighing range)	Single interval Multi-interval Multiple range
Maximum number of scale intervals	$n \leq 6000$
Maximum partial weighing ranges	2
Temperature range	$-10 \text{ °C} / +40 \text{ °C}$

Tare	$T \leq -\frac{2}{3}Max$ for single interval instruments $T \leq -Max_1$ for multi interval instruments
Power supply voltage	220 – 230 V AC 50/60 Hz
Application	Intended to be used for direct sales to the public Intended to be used for the making-up of prepackages
Software identification	See 2.1.2, 2.2.1 or 2.3.1

The software identification is displayed at start-up / after pressing the key sequence:

- Menu;
- About;
- Select the tab 'weight'.

The non-automatic weighing instrument has loadable software.

The instrument can be used in a master/slave configuration, as a master or as a slave.

The instrument can be used as a self-service scale.

1.3 Essential shapes

Number	Pages	Description	Remarks
8471/0-07	1	20 I.98T.PC dimensions	-
8471/0-08	1	20 I.98T.PC exploded view	-
8471/2-05	1	20 I.12" dimensions	-
8471/2-06	1	20 I.12" exploded view	-
8471/0-09	1	20 RL.98T.PC dimensions	-
8471/0-10	1	20 RL.98T.PC exploded view	-
8471/2-07	1	20 RL.12" dimensions	-
8471/2-08	1	20 RL.12" exploded view	-
8471/0-11	1	20 RLI.98T.PC dimensions	-
8471/0-12	1	20 RLI.98T.PC exploded view	-
8471/2-09	1	20 RLI.T dimensions	-
8471/2-10	1	20 RLI.T exploded view	-
8471/0-13	1	22 I.96T.PC dimensions	-
8471/0-14	1	22 I.96T.PC exploded view	-
8471/0-15	1	22 RL.96T.PC dimensions	-
8471/0-16	1	22 RL.96T.PC exploded view	-
8471/0-17	1	22 RLI.96T.PC dimensions	-

Number	Pages	Description	Remarks
8471/0-18	1	22 RLI.96T.PC exploded view	-
8471/2-11	1	22 RLI.T dimensions	-
8471/2-12	1	22 RLI.T exploded view	-
8471/11-02	1	10 RL-PC (RL 80) & XS 10 RL dimensions	-
8471/11-03	1	XS 10 RL exploded view	-
8471/3-03	1	10 RL-PC (RL 80) exploded view	-
8471/4-01	1	PC-20 I. dimensions	-
8471/4-02	1	PC-20 I. exploded view	-
8471/4-03	1	PC-20 RLI. dimensions	-
8471/4-04	1	PC-20 RLI. exploded view	-
8471/7-03	4	Dimensions XS-20 and XS-22	-

The data plate is secured against removal by sealing or will be destroyed when removed.

The inscriptions Max, Min, e, as required by Directive 2014/31/EU Annex III clause 1.4 are presented in the display by software.

1.4 Conditional parts

The instrument may be equipped with the following parts that further process the measurement result without modification under the conditions stated in the table:

Part	Condition(s)	Reference document
Simple recipient printer	CE marking present	WELMEC 2.10 clause 3.1.3
Printer Data Storage Device	CE marking present and the part is certified to be connected to a weighing instrument by a Notified Body responsible for type examination under Directive 2014/31/EU.	WELMEC 2.10 clause 3.1.3
Point of Sale (POS)	CE marking present and the part is certified to be connected to a weighing instrument by a Notified Body responsible for type examination under Directive 2014/31/EU.	WELMEC 2.2
Point of Sale (POS) (software installed on the weighing instrument)	The part is certified to be installed on a weighing instrument by a Notified Body responsible for type examination under Directive 2014/31/EU.	WELMEC 2.2

Part	Condition(s)	Reference document
Price Totalizer Price Computing Device	CE marking present and the part is certified to be connected to a weighing instrument by a Notified Body responsible for type examination under Directive 2014/31/EU.	WELMEC 2.10 clause 3.1.3
Price Totalizer Price Computing Device (software installed on the weighing instrument)	The part is certified to be installed on a weighing instrument by a Notified Body responsible for type examination under Directive 2014/31/EU.	WELMEC 2.10 clause 3.1.3
Electronic Funds Transfer equipment (EFT)	CE marking present and the EFT represents only the price total on the display.	-

The non-automatic weighing instrument is fitted with a levelling device and a level indicator, unless the instrument is installed in a fixed position. A ring on the level indicator indicates when the maximum tilt is exceeded.

1.5 Non-essential parts

The non-automatic weighing instrument may be connected to non-essential devices, for example but not limited to bar code readers, foot switches, second displays and cash drawers, provided that:

- They do not present primary data used for purposes mentioned in Directive 2014/31/EU Article 1(2), (a) to (f) unless the (Preliminary observation) in Directive 2014/31/EU Annex I is satisfied;
- They do not lead to an instrument having other essential characteristics than those fixed by this certificate.

2 Information about the main constituent parts of the non-automatic weighing instrument

2.1 The electronics

2.1.1 Essential parts

Number	Pages	Description	Remarks
8471/0-19	2	A/D board CS-5530	Version 2.2
8471/9-01	3	A/D board CS-5530	Version 3.0
8471/0-20	3	MiniBPTC board	-
8471/7-04	5	EPISCALE board	-
8471/12-01	1	A+M board (CS5530 only, or MiniBPTC+CS5530) (MCU + Analog BOM)	Including parts list
8471/12-02	1	Analog BOM (CS5530 only)	Including parts list

2.1.2 Essential characteristics

List of legally relevant functions:

- Determination stability of equilibrium;
- Indication of stable equilibrium;
- Zero indicating device;
- Semi-automatic zero-setting;
- Initial zero-setting;
- Zero-tracking;
- Semi-automatic subtractive tare weighing;
- Preset tare;
- The adjustment mode is secured with a password. The software seal uses an event counter that increases each time any metrological parameter changes or adjustment is made;
- Checking the display.

Mini BPTC, EPISCALE and A+M firmware:

- MBPT-CCII-000Y00-0.xx, where Y → 1= Mini BPTC board & CS5530 board 2=A+M board:
 CC = country, II = language (variable), 0.xx = version, xx= variable.

2.1.3 Conditional parts

Number	Pages	Description	Remarks
8471/0-21	4	Power supply board	-

The non-automatic weighing instrument may be equipped with one or more of the following protective interfaces that have not to be secured:

- RS232;
- Ethernet;
- USB host.

2.1.4 Non-essential parts

PC board that runs the POS software;
 Display;
 Keyboard;
 Internal printer;
 Label printer.

2.2 The Epelsa POS software

2.2.1 Essential parts

Legally relevant parts:



POS software package	OS	Legally relevant files	Version	MD5 hash
ScalePos	Windows	Epelsa.dll	1.0.2.3	E3E57643A0178BE8C21F9CFF53BFB80D
TouchScale	Windows	Libwgt.dll	1	9669792b564f793471c962c02bd8d912
TouchScale	Linux	Libwgt.so	1	dcf11d09b220209e7f92ef48494d6dc2

Software identification:

The scale application will show the following software information together with the other scale configuration data during start-up:

- Name of the manufacturer;
- Event counter value;
- Mini BPTC/Episcale and A+M board firmware version, see chapter 2.1.2;
- Program identifications.

Depending on the software package installed this information can also be recalled by:

- pressing the  key followed by the  key;
- pressing the menu-button, scrolling to and pressing the about-button and viewing the tab "weight".

2.2.2 Essential characteristics

Operating system (OS): Windows or Linux.

Legally relevant functions:

- Indication of primary indications;
- Indications other than primary indications;
- Indication of additional information;
- Non weighed articles;
- Totalisation;
- Counting function;
- +/- comparator device;
- Multi-vendor;
- Price labelling;
- PLU;
- Price-computing;
- Handling of manual weight data;
- Additional functions that facilitate trade and management.

Software protection:

- The software is placed on the hard disk in executable files and associated libraries (dll's or so's);
- The software operates with protected software interfaces;
- The software is protected by a version number and a MD5 checksum;
- The software will not start when the calculated MD5 code does not match the stored value.

2.2.3 Essential shapes

Number	Pages	Description	Remarks
8471/6-01	1	Software block diagram: General System	-

2.2.4 Non-essential parts

Part(s) not subject to legal control:

The software may contain files or programs that have non-essential properties, for example (but not limited to) invoice modules, database modules and operating system, provided that they do not lead to an instrument having other characteristics than those fixed by this certificate.

2.3 The third party POS software

2.3.1 Essential parts

Legally relevant management software:

Management software	OS	Legally relevant files	Version	MD5 hash
EBP	Windows	DLLEBP.DLL	1.0.0	D649387A90CDE835E3660F9C320D618F
CASPOS	Windows	dllcas.dll	1.0.0	AE789B0E36F89FF55A3EDDD269808010
TouchScaleXS	Linux	LibXS.so	0.1	f176461ed00b25cd4f8a21e27a8edcba
BDP (TpvNet.exe)	Windows	DLLBDP.dll	1.0.0	D4F4C57263FFD2FE942D864E70C7D0D4
MipelPOS.exe	Windows	MIPEL_BAL.DLL	13.11.19	514289185 (CRC32 hash)
TouchDominus Scale.exe	Windows	ConnectDominusScale.dll	1.0.0	36d23815f6c4a59e44c3ce42048850bc
Ventana POS	Linux Windows	Libsockbal.so Libsockbal.dll	1.0 1.0	8070eb298b3c1473e93096ffa7fb949c 5061A1F55112786068A028F781384BE5
SPERO Caisse.exe	Windows	DLLLINEO.dll	1.0.0	1929df2fef1d083d8d111fa189bd92da
Comerzzia-JPOS.exe	Windows	comerzzia-openscale-1.0.0.jar	1.0.0	1B7E209B3B69DAE9ABF3356F9F3F81DE
Onetouch.exe	Windows	DLLJNONE.dll	1.0.0	1542CACB53EDA102235FFBFAFCABCFFC

When third party management software is used, the software package OpenScale is a mandatory software package that is used with one of the other packages mentioned above.

POS software package	OS	Legally relevant files	Version	MD5 hash
OpenScale	Windows	DLLBPTC.dll BAL.exe	1.0.0.2 2.2.65 or later	5CD1E726C4A66E268525B6718A0ECC66 -
OpenScale	Linux	LibBPTC.so BAL	1.0 0.2 or later	0032eb288d9d47b24344844c24fd1d3b -




Software identification:

The scale application will show the following software information together with the other scale configuration data during start-up:

- Name of the manufacturer;

- Event counter value;
- Mini BPTC/Episcale and A+M board firmware version, see chapter 2.1.2;
- Program identifications.

Depending on the software package installed this information can also be recalled by:

- pressing the  key followed by the  key;
- pressing the menu-button, scrolling to and pressing the about-button and viewing the tab "weight" then pressing the  key.

2.3.2 Essential characteristics

Operating system (OS): Windows or Linux.

Legally relevant functions Open Scale POS software package:

- Indication of primary indications;
- Data storage, data to reconstruct the transaction is stored in checksum protected records;
- Price-computing;
- Interface to send tare, preset tare and zero command;
- Interface to receive weighing data.

Legally relevant functions third party software package:

- Indications other than primary indications;
- Indication of additional information;
- Multi-vendor;
- Totalisation;
- Price labelling;
- PLU;
- Non weighed articles;
- Handling of manual weight data;
- Additional functions that facilitate trade and management.

Software protection:

- The software is placed on the hard disk in executable files and associated libraries (dll's);
- The software operates with protected software interfaces;
- The software is protected by a version number and a MD5 checksum;
- The software will not start when the calculated MD5 code does not match the stored value.

2.3.3 Essential shapes

Number	Pages	Description	Remarks
8471/6-01	1	Software block diagram: General System	-

2.3.4 Non-essential parts

Part(s) not subject to legal control:

The software may contain files or programs that have non-essential properties, for example (but not limited to) invoice modules, database modules and operating system, provided that they do not lead to an instrument having other characteristics than those fixed by this certificate.

2.4 The mechanical assembly with load cell

2.4.1 Essential parts

Number	Pages	Description	Remarks
8471/0-23	1	MV-B dimensions	-
8471/0-24	1	BP (hanging) dimensions	-

2.4.2 Essential characteristics

$e \geq E_{max}/10000$, or $e_1 \geq E_{max}/10000$ in case of multi-interval instrument.
 Excitation power supply voltage 5 V DC.

2.4.3 Essential shapes

Load transmission:

Number	Pages	Description	Remarks
8471/0-08	1	20 I.98T.PC exploded view	-
8471/0-14	1	22 I.96T.PC exploded view	-

3 Seals

To secure components that may not be dismantled or adjusted by the user, the non-automatic weighing instrument has to be secured in a suitable manner on the locations indicated in the drawings:

Number	Pages	Description	Remarks
8471/0-25	1	MV-B sealing	-
8471/0-26	1	BP sealing	-

The connecting cable of the load cell or the junction box is provided with possibility to seal.

The event counter value is shown at the start-up of the POS software.

4 Conditions for conformity assessment

The marks, facilities for the marks and the inscriptions on the non-automatic weighing instrument fulfil the requirements of Directive 2014/31/EU Annex III clause 1.

The inscriptions contain the value of the event counter.

In case the non-automatic weighing instrument is equipped with a Point Of Sale the conformity assessment procedure of WELMEC 2.2 Issue 3 clause 2.2 shall be taken into account.