Test Certificate

No. S-TC-SC0369-14
for Software Application Program

Issued to

LS Retail, Katrinartun 2, 105 Reykjavik, Iceland

In respect of

Software application program for use in a price computing point of sales device (POS) tested as a separate part to a weighing instrument intended to be used for direct selling to the public.

Identification

Type: LS Nav POS
Manufacturer: LS Retail, Katrinartun 2, 105 Reykjavik, Iceland

Characteristics

The tested software is designed for summing articles and printing of receipt and is connected to a weighing instrument. In the appendix belonging to this certificate further essential characteristics are described.

Description and documentation

The tested software is described in the 3 appendices and documented in the documentation folder held by SP.

In accordance with

Paragraph 8.1 of the European Standard on metrological aspects of non-automatic weighing instruments EN 45501:1992 and WELMEC 2.2 and WELMEC 2.3. This test certificate does not have the meaning of a type approval document as mentioned in the Directive 2009/23/EC Non-Automatic Weighing Instruments.

2015-06-30

SP Technical Research Institute of Sweden
Certification - Notified Body No. 0402

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1. General

All properties of the tested equipment, whether mentioned or not, may not be in conflict with the legislation and standard mentioned in the document.

2. Essential characteristics

2.1 Functions

- receiving of weighing data
- price-computing
- totalization
- Printing
- Cancellation
- Additional functions, which facilitate trade and management

2.2 Software description

The software program is meant to be used for point of sales device (POS) based on a free programmable PC.

The POS receives only the weight data from the Non-Automatic Weighing Instrument and performs the price calculation.

2.3 Software identification

Version: LSNav2.0/LSNav2.0/2.0.1.0/1013001

2.4 Checking of program correctness

The CertifiedScale Class, "POS Weighing Utility" Codeunit, Scale Assembly (LSOposScale.DLL) and OPOS Scale CCO mentioned here, are considered to be Legally Relevant Software for the Scale Certification. The Version Number and Checksum for all of them can be view at any time in the LS Nav POS by pressing keys Ctrl+Shift+F6 or from the POS's Hardware Information Panel.

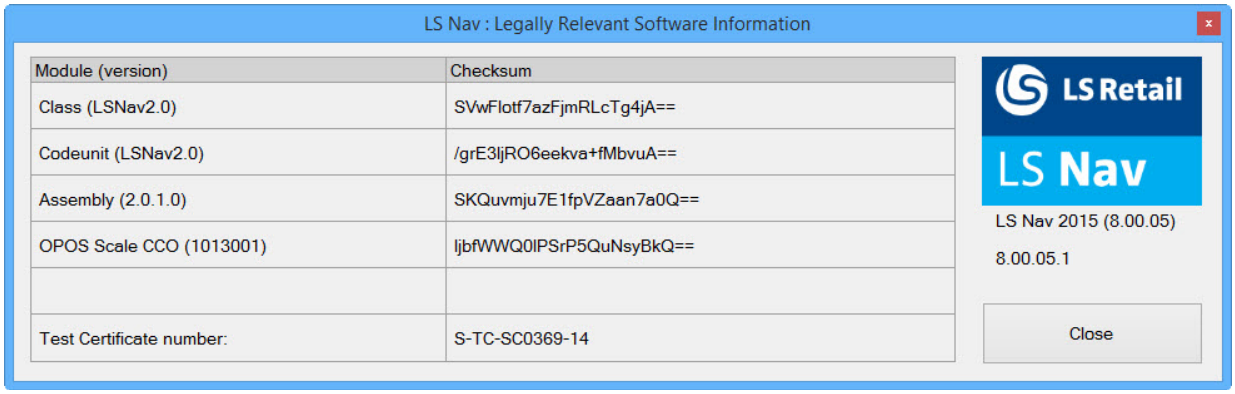

Figure 2.4: Legally Relevant Software Information dialog

The table on the Form contains the Legally Relevant Software Information. Module and Version in the left column and MD5 Checksum in the right column.
The right hand side of the dialog shows the LS Nav Logo and version information for the, non-legally relevant, LS Nav Solution. The upper version text is the main LS Nav version, the lower is the current POS Control (add-in) version.

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2.5 Software securing

If checksums are invalid the checksum text will be shown in red indicating that the Legally Relevant Software has been modified. If checksums are invalid the Scale Device will not be enabled.

The software operates with protected software interfaces. For more information about securing of the software see report regarding Welmec 2.3 performance referred to in "Tests carried out".

3. Essential shapes

The POS must have a Operators Display, touch screen and/or PLU-keyboard, Printer and a Customer facing Display.

4. Connections (computer hardware)

The POS shall be equipped with an protective interface RS232 for connecting to the Non-Automatic Weighing Instrument and other interfaces.

5. Specification for hardware and operative system

The operative system shall be one of the following :

- Windows 8.1 Professional or Enterprise (32-bit and 64-bit editions)
- Windows 8 Professional or Enterprise (32-bit and 64-bit editions)
- Windows 7 Service Pack 1 Professional, Ultimate, or Enterprise (32-bit and 64-bit editions)
- Windows Server 2012 R2 Standard or Essentials (64-bit edition)
- Windows Server 2012 Standard or Essentials (64-bit edition)
- Windows Server 2008 R2 Service Pack 1 (64-bit edition)

For more detailed information regarding system requirements for Microsoft Dynamics NAV please see the Requirements for Microsoft Dynamics NAV 2015 on https://msdn.microsoft.com/en-us/library/dd301054(v=nav.80).aspx

The hardware shall consist of a PC with celeron processor (or compatible) ≥ 1 GHz, ≥1 Gb Ram, ≥30 Mb hard disk space.

Customers display 1 or 2-row matrix LCD 20 signs minimum. Signs height ≥ 9,5 mm on customer display.

6. Tests carried out

The software is tested in accordance with WELMEC 2.2 and WELMEC 2.3.

The results are documented in SP test reports 4P02503-01-1 dated 2014-05-27 and report 4P02503-02-01 dated 2015-04-08.

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7. Allowed deviations from EN 45501 according to WELMEC guide 2.2 point 5

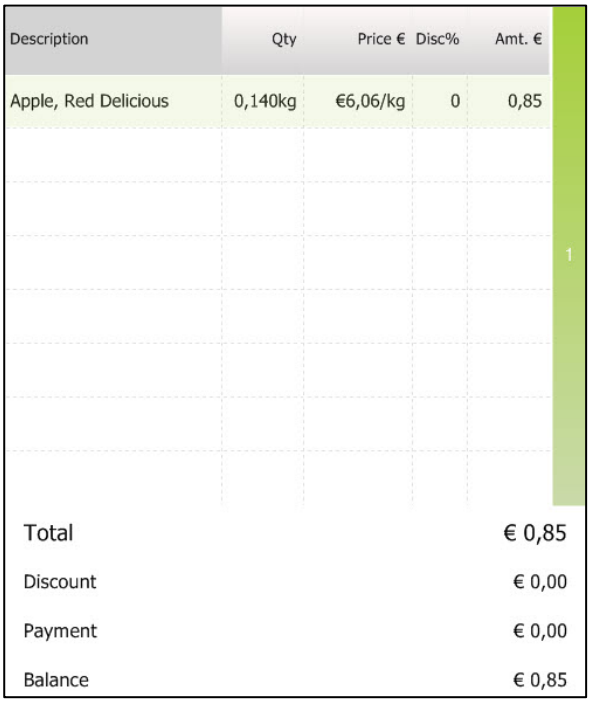
1. The height of the numerical figures need not to be the same for the customers and vendors display.
2. The height of the numerical figure of the vendors display needs not to be ≥ 9,5 mm if the data are clearly readable by the vendor in their normal operating position.
3. The unit price (UP) and price to pay (PP) may remain visible until the next operation is performed.
4. Point 5.3.1 is not applicable to the non-segmental displays.

8. Markings and inscriptions

Markings with manufacturers name, software type and version are available by:
Se appendix 2, “layout of operators display” at the top. For access to the test certificate number see chapter 12 “Access to checksum..”.

9. Layout of operators display

9a)
Example of operators display with registration of weight item.



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9b)
Manually
entered weight

Cronus Super Market South

Description	Qty	Price €	Disc%	Amt. €
MAN Apple, Red Delicious	0,255kg	€6,06/kg	0	1,55

Total	€ 1,55
Discount	€ 0,00
Payment	€ 0,00
Balance	€ 1,55

22. mai 2014
13:58:53

9c)
Non-weight item

Description	Qty	Price €	Disc%	Amt. €
Milk 1 Liter	1	€1,14	0	1,14
Gouda Cheese	1	€2,75	0	2,75
Soda Lime 33 CL	2	€0,78	0	1,56

Total	€ 5,45
Discount	€ 0,00
Payment	€ 0,00
Balance	€ 5,45

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10. Presentation on customer display

Two row display:

When weight items are processed in POS the following text appears on the customer display:



Manually entered weight



Non-weight item



Totalization



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11. Layout of receipt

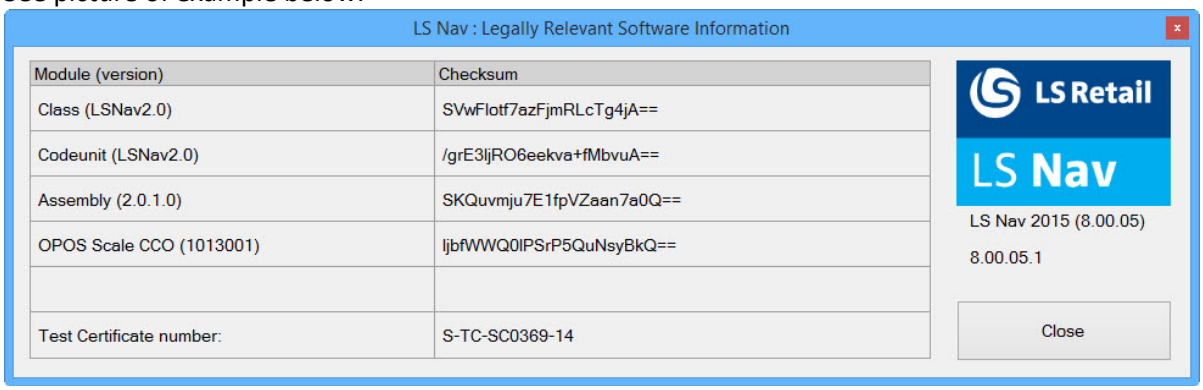
```
Cronus Food Market South
----------------------------------------
Slip:  00000P0001000001680
Staff: Flynn          Trans:        298
Date:  26.05.14 09:45
----------------------------------------

Description                      Amount
----------------------------------------
Apple, Red Delicious
   0,080kg @ €6,06/kg             0,48  C
Apple, Golden Delici
MAN 0,530kg @ €17,50/kg           9,28  C
Milk 1 Liter bottle               1,14  B
Soda Lime 33 CL
2 pcs @ €0,78/pcs                 1,56  C
----------------------------------------
Total €                          12,46
Cash                            -12,46
----------------------------------------
   VAT%    Net.Amt       VAT      Amount
B    10       1,04      0,10        1,14
C    25       9,06      2,26       11,32
----------------------------------------
Welcome again
```

12. Access to test certificate number and checksum

The version number of the legally relevant software can be found by either pressing Ctrl+Shift+F6 or selecting Supervisor Menu > Hardware Info > Scale > Scale Version Info.

See picture of example below.



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