PARTS CERTIFICATE

S-PC-SC1066-17

Software application program

Issued to

LS Retail

Hagasmari 3, 201 Kopavogur, Iceland

In respect of (part of instrument)

Software application program for use in a non-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.

In accordance with

Paragraph 8.2 of the European Standard on metrological aspects of non-automatic weighing instruments EN 45501:2015, WELMEC 8.8 issue 2, WELMEC 2.2 issue 3 and WELMEC 2.3 issue 3. This certificate does not have the meaning of a type approval document as mentioned in the Directive 2014/31/EC Non-Automatic Weighing Instruments. RISE Certification Rules SPCR 181 has been applied.

Identification

Types:	LS Nav, LS Central	
Versions:	LS NAV:	Versions 9.xx, 10.xx, 11.xx
	LS Central:	Versions 13.xx, 14.xx, 19.xx, 2x.xx
Manufacturer:	LS Retail, Hagasmari 3, 201 Kopavogur, Iceland	

Characteristics/rated operating conditions

The tested software is designed for summing articles and printing of receipt and is connected to a weighing instrument.

Description and documentation

The tested software is described in this certificate and documented in the documentation folder held by RISE.

This certificate replaces earlier issues. This issue 8 is issued due to clarifications of software identification.

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Specifications:

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/Technical data

2.1 Functions

- receiving of weight and price to pay
- 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.
When connected to price calculating scale the POS will send the unit price of item (price/kg) to the NAWI and receive the price to pay from the NAWI.

2.3 Software identification

Versions: LSNav 9.xx/10.xx/11.xx
Versions: LS Central 13.xx/14.xx/19.xx/2x.xx
The letters x are not relevant for legal metrology and can be represented by numbers (or letters)

Manufacturer: LS Retail, Hagasmari 3, 201 Kopavogur, Iceland

2.4 Checking of program correctness

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

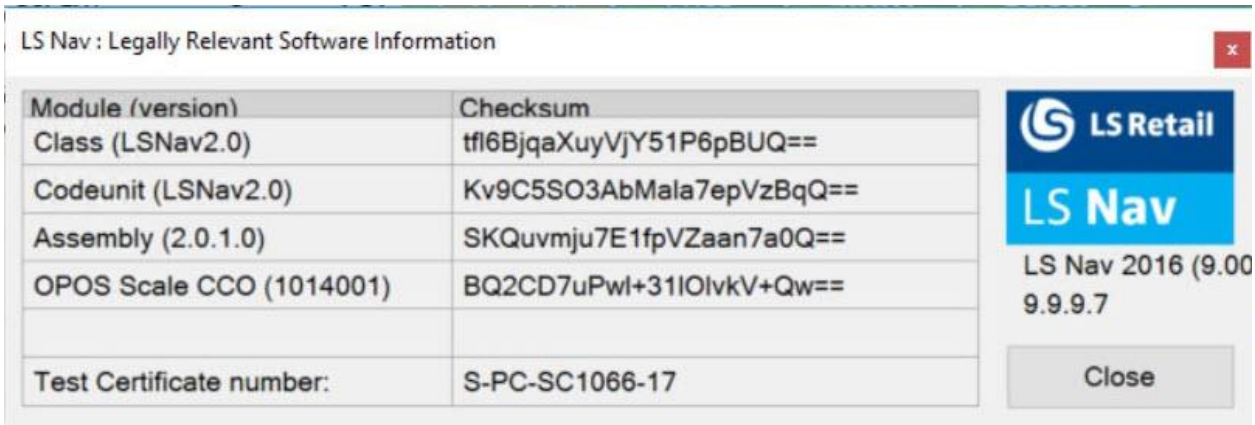

Figure 1: Legally Relevant Software Information dialog for ver 9.xx

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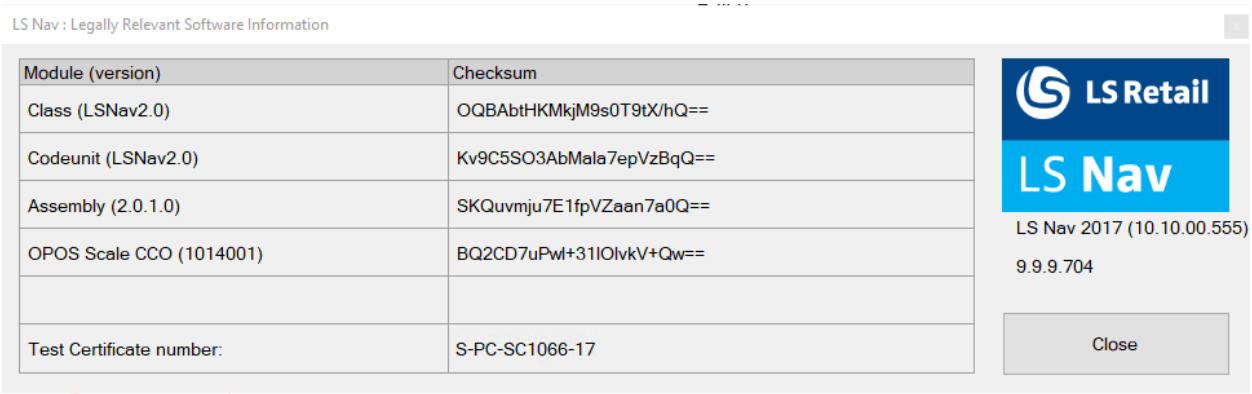

Figure 2: Legally Relevant Software Information dialog for ver 10.xx



Figure 3: Legally Relevant Software Information dialog for ver 11.xx

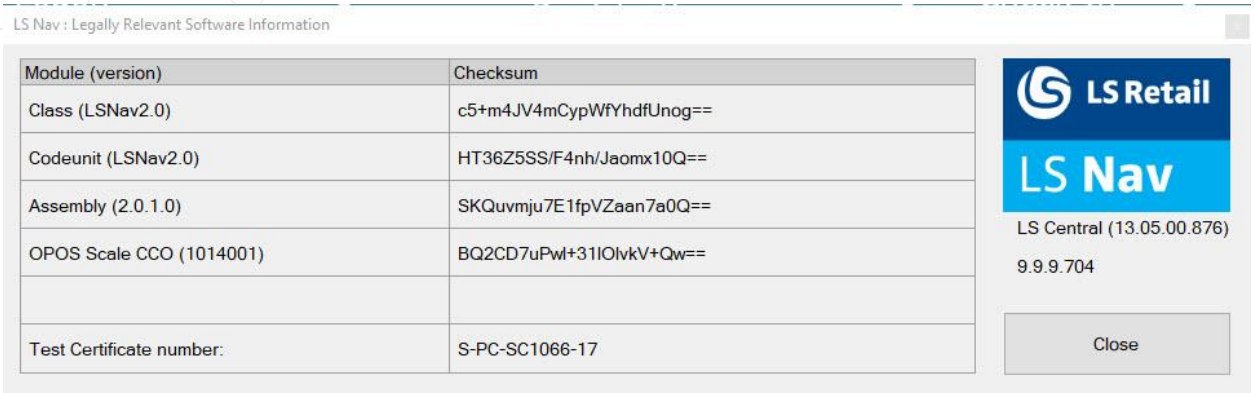

Figure 4: Legally Relevant Software Information dialog for ver 13.xx

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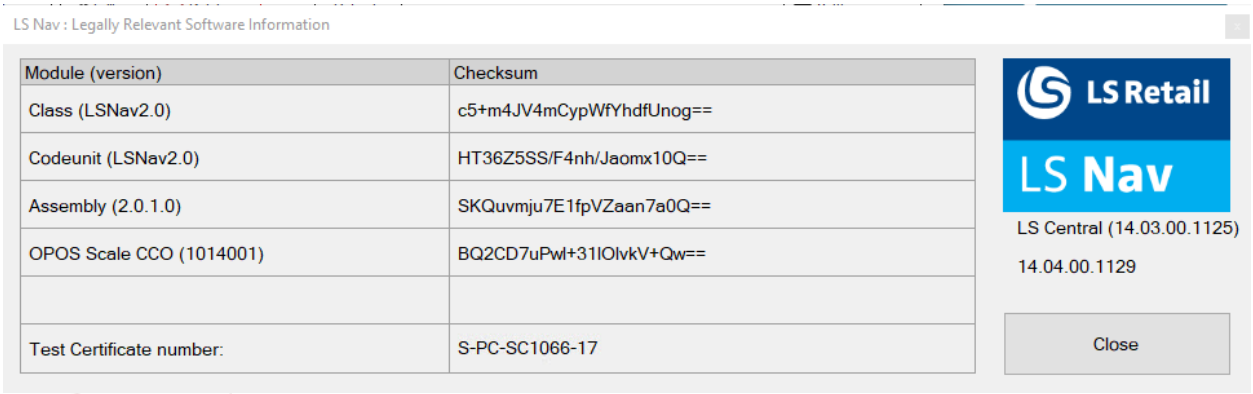

Figure 5: Legally Relevant Software Information dialog for ver 14.xx

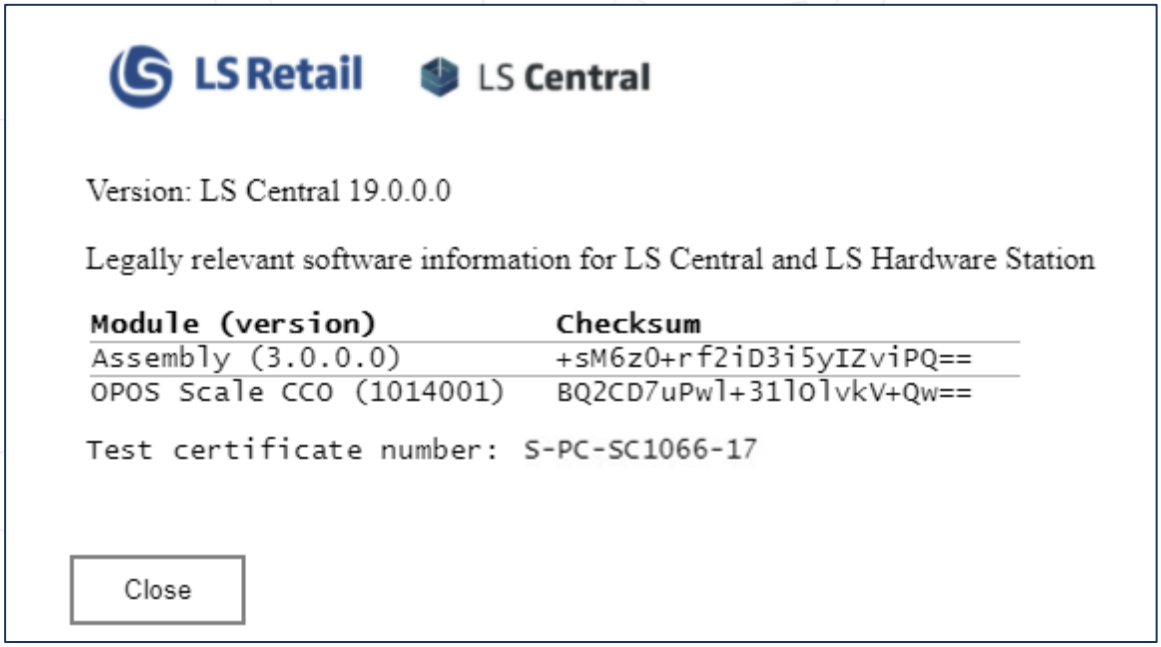

Figure 6 Legally Relevant Software Information dialog for LS Central ver 19.xx

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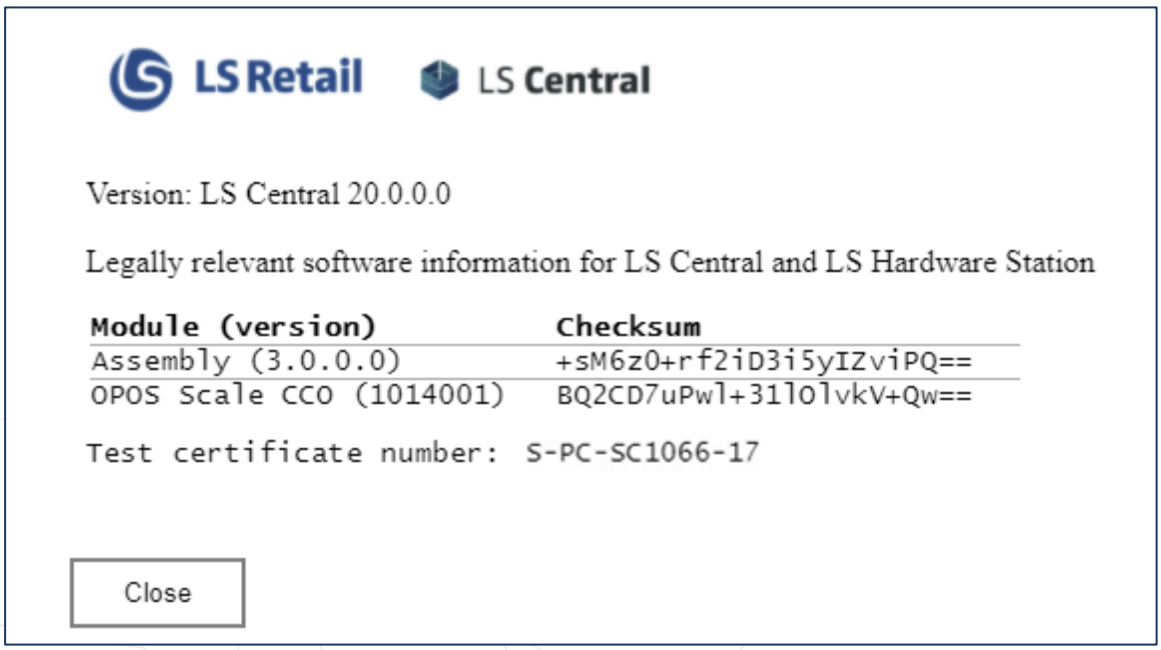

Figure 7 Legally Relevant Software Information dialog for LS Central ver 2x.xx

The table of the Form contains the Legally Relevant Software Information. Module and Version are presented in the left column and MD5 Checksum in the right column.

The right-hand side of the dialog shows the Logo and version information for the, non-legally relevant, LS Nav, LS Central Solution. The upper part of the figure is the main version and the lower is the current POS Control (add-in) version.

2.5 Sealing and 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 an operators display, touch screen and/or PLU-keyboard, Printer and a customer facing display. For the customer display an alternative is use of the software module Mettler Toledo VCODisp (see certificate nr. TC 7285) or the Mettler Toledo standard display.

4. Connections (computer hardware)

The POS shall be equipped with a protective interface (using Dialog 06 communication protocol), RS232 or USB for connecting to the Non-Automatic Weighing Instrument and other interfaces.

5. Specification for hardware and operative system

For more detailed information regarding system requirements for Microsoft Business Central please see the Requirements for Microsoft Business Central on https://docs.microsoft.com/en-us/dynamics365/business-central/dev-itpro/deployment/system-requirement-business-central-v15

Customer display 1 or 2-row matrix LCD 20 signs minimum or VGA display. Signs height ≥ 9.5 mm on customer display.

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6. Tests carried out

The software is tested and evaluated in accordance with WELMEC 2.2 and WELMEC 2.3, EN 45501, 8.2 and Welmec 8.8.

The results are documented in test reports 4P02503-01-1 dated 2014-05-27 , 4P02503-02-01 dated 2015-04-08 ,and P110197 dated 2021-05-21 .

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

1. The height of the numerical figures does not need to be the same for the customers and the vendors display.
2. The height of the numerical figure of the vendors display does not need 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 can be seen in accordance with software information dialog. For access to the test certificate number see chapter 12 “Access to checksum”.

9. Layout of operators display

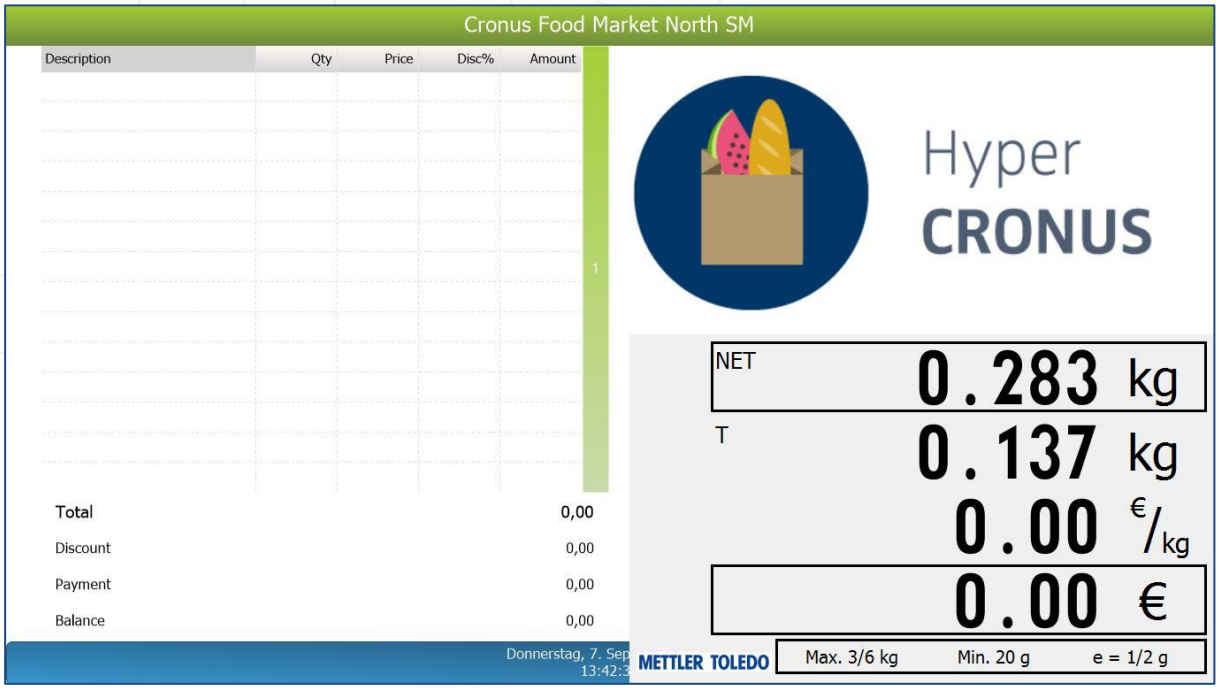

Figure 8: Example of operators display with registration of weight item.

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Figure 9: Manually entered weight

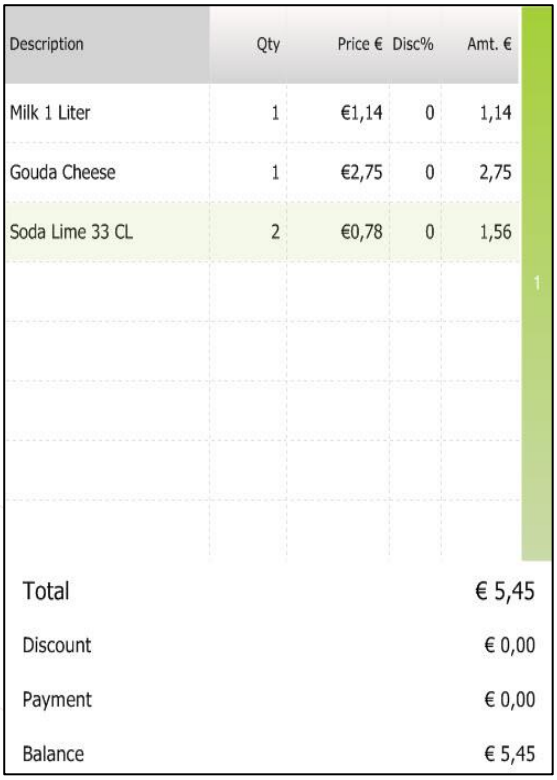

Figure 10: Non-weight item

10. Presentation on customer display

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



Figure 11: Example text for manually entered weight



Figure 12: Example text when items are processed in POS



Figure 13: Non-weight item



Figure 14: Totalization

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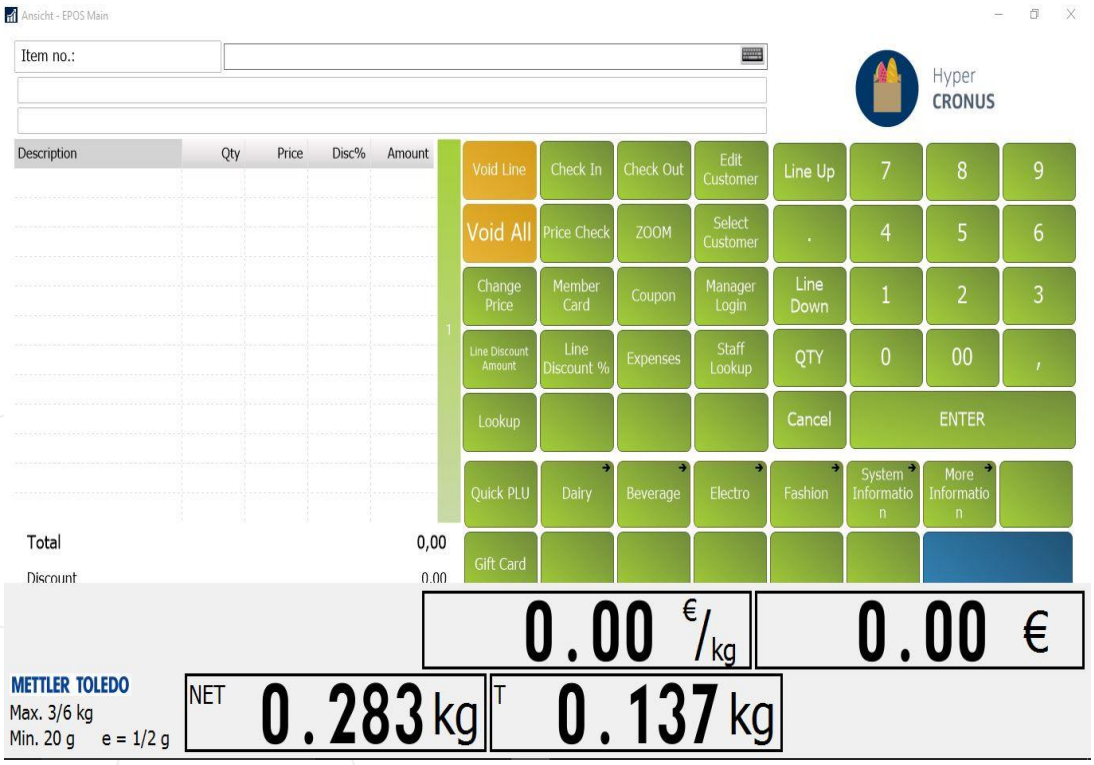

Figure 15: Mettler Toledo VCO

11. Layout of receipt

```
Cronus Food Market South
----------------------------------------
Slip:  00000P0001000000006
Staff: Aries          Trans:          6
Date:  03/05/22 14:21
----------------------------------------

Description                  Amount €
----------------------------------------
Cucumber
  0.600 kg x 3.50 €/kg           2.10  B
----------------------------------------
Total  €                         2.10
Cash                            -2.10
----------------------------------------
   VAT%    Net.Amt       VAT    Amount €
B    10       1.91      0.19        2.10
----------------------------------------
Welcome again

          #123###############
           {AT0101000000006
```

Figure 16: Example text receipt

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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 figure 1-5 above).

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