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EVALUATION (TEST) CERTIFICATE

No. DK0199-Alibi-07.05 Revision 1

Object name	CSC3
Object type	Alibi Storage Device
Issued by	DELTA Danish Electronics, Light & Acoustics EU - Notified Body No. 0199
In accordance with	The applicable requirements of the Measurement Instruments Directive 2004/22/EC, and WELMEC Guide 7.2:2007
Issued to	Crisplant A/S P. O. Pedersens Vej 10 8200 Aarhus N Denmark
Manufacturer	Crisplant A/S
Characteristics	An external Alibi Storage Device suitable for use with both automatic weighing instruments and multi-dimensional measuring instruments.
Description and documentation	The alibi storage device is described and documented in the annex to this certificate.
Remarks	Summary of tests involved: see annex. This test certificate cannot be quoted in an EU type approval certificate without permission of the holder of the certificate mentioned above.

The annex comprises 4 pages.

Issued on 06 August 2009

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1. General

The Data Storage device is designated CSC3 and used as an external alibi system for automatic weighing instruments and multi-dimensional measuring instruments at the regional parcel centres of Post Danmark the so-called HUBs.

2. Description

The CSC3 software realises in long term data storage for weight and dimensions of parcels.

CSC3 receives measuring results packed in records with CRC checksum from the connected measuring instruments. CSC3 collects weight, dimensions and parcel ID barcode for the parcel as it is transported through the manual registration line controlled by the CSC3. The collected parcel information is stored in an alibi record protected with CRC checksum.

The 16-bit CRC checksum is calculated using a private secret key.

Parcels may be placed on a tray, while transported through the sorter. The tray has a barcode, which is used to identify the tray. The tray barcode is manually scanned. CSC3 has a preset tare function subtracting the weight of the tray from the gross weight of the parcel.

The CSC3 has an “Alibi lookup” facility. Entering the ID barcode will search the entire data base for occurrences of the barcode and display the found record(s) together with indication of whether CRC check is ok or not.

Stored records are transferred to a host computer for invoicing of the parcel service. This transmission is not under legal control.

CSC3 has a system test function, where a series of test parcels with known weight, dimensional data, and parcel ID barcode is sent through the parcel sorter to ensure that all legal information is collected correct, as collected information is compared with the parcel information a priori stored in CSC3. The result of the test shall be printed and kept in a log book. The test shall be performed at least every 6 months and after service on the PC hosting CSC3 or the transmission network.

3. Technical data

CSC3 runs on a PC with SCO Unix and ISAM version 3 SQL server.

Alibi records are kept on the hard disk of the system for up to 1 month. Each month the alibi records are transferred to a removable back-up media (tape or CD).

Back-ups can be read back into the PC after which the “Alibi lookup” facility can be used on the back-up data to search for parcel data.

4. Measuring instruments to be connected

CSC3 is intended for use with automatic catchweighers and multi-dimensional measuring instruments placed in the manual sorting lines

5. Functions and facilities

- Receiving secured alibi records for connected measuring instruments.
- Secure storing of alibi records in database on disk.
- Back-up of stored alibi records to removable media.
- Restoring of alibi records from back-up media.
- Alibi lookup of stored records based on ID barcode number.

6. Interfaces and peripheral devices

The interfaces of the PC used by CSC3 are declared protective by the manufacturer.

7. Impositions and conditions

The CSC3 meets the requirements only when it is correctly loaded, displaying its identification (see Section 8).

When using trays for preset tare they shall be identified by a barcode already defined as a preset tare supplementary service. If the preset tare function is used, the measured dimensional data are not to be regarded as a legal value.

Only but then CSC3 may be used for purposes subject to legal control.

8. Inscriptions and sealing

The size and checksum of the program modules responsible for handling legal data shall be the following, when displayed or printed by the CSC3.

```
=====
s2000 software version                mm/dd/yy tt:mm:ss
Checksums oversight for de kritiske dele af CSC'en
=====
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Størrelse	Checksum	Navn
170588	1089583221	mcisisrv
118192	1640497229	ucart
28568	1137158706	stat
27284	4077266949	wsave
407896	596154076	mmietherm
48436	918318148	testsrv
35532	2188372547	searchsrv
31708	2278262433	../../usr/libcrc.so

```
=====
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No sealing of CSC3 software is to be performed, as CSC3 contains no type parameters (TP) and device parameters (DP).

9. Additional information for the EC verification

A copy of this test certificate has to be supplied at verification of a connected measuring instruments

10. Documentation

The submitted documentation is filed at DELTA in file no. E830071, E830081, E830082, A530377, A530433, and A530498.

11. Examinations performed

The following examinations were accomplished at a PC:

- Examination of the submitted documentation.
- Examination of the software in accordance with WELMEC Guide 7.2 (2007), and Directive 2004/22/EC, Annex I, section 8.1 - 8.4 and 10.3.
- Examination of functional and operational behaviour.

The examination is reported in the following test reports:

- DANAK-1910094, dated 13 March 2008 28 pages.
- DANAK-199871, dated 30 September 2007, 33 pages.
- DANAK-199858, dated 30 July 2007, 40 pages.
- DANAK-199816, dated 26 September 2006, 91 pages.
- DANAK-199760, dated 6 April 2005, 24 pages + 7 annexes.
- DANAK-199732, dated 2 July 2004, 23 pages + 7 annexes.