

TEST CERTIFICATE

No. DK0199-Alibi-07.01

Object name M12-DSD

Object type Alibi Storage Device

Issued by DELTA Danish Electronics, Light & Acoustics
EU - Notified Body No. 0199

In accordance with Paragraph 8.1 of the European Standard on metrological aspects of non-automatic weighing instruments EN 45501:1992, WELMEC Guide 2.3 (2005), WELMEC Guide 2.5 (2000), and WELMEC Guide 7.2 (2007)

Issued to Marel hf
Austurhraun 9
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Iceland

Manufacturer Marel hf

Characteristics An external Alibi Storage Device suitable for use with both non-automatic weighing instruments and automatic weighing instruments.

Description and documentation The alibi storage device is described and documented in the annex to this certificate.

Remarks Summary of tests involved: Test report no. DANAK-199857
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 3 pages.

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1. General

The Data Storage device is designated M12-DSD suitable to be used as an external alibi system for both non-automatic and automatic weighing instruments.

2. Description

The M12-DSD software realises in connection with a standard PC a long term data storage for weighing results.

M12-DSD is completely passive and does not initiate any communication with the weighing instruments.

A weighing instrument connects to the M12-DSD by addressing it using the IP address of the host PC and the Port number assign to M12-DSD at installation time. This is done regularly and allows M12-DSD to maintain a list of connected weighing instruments.

When a weighing instrument transmits an alibi record to M12-DSD, it will as a minimum contain: identification of record, identification of weighing instrument, Net weight, tare weight, tare method, and checksum of record. Other variable values may be included for storage without affecting the operation of the alibi system. After checking the correctness of the record, having assigned an alibi number and a date / time stamp to the record, and have saved it on disk, the M12-DSD acknowledges it by sending the identification of record, the alibi number, the date / time stamp, and checksum of the answer to the weighing instrument.

The checksum is a 32 bit Adler checksum calculated over the “record” and a secret text.

The M12-DSD has an “Alibi lookup” facility. Entering the Alibi number will display the secure alibi record. If the alibi record is corrupted or non-existing, an error message is displayed instead.

3. Technical data

M12-DSD requires a standard PC with

- Ethernet LAN connection using a fixed TCP / IP address
- > 1 GB free disk storage capacity
- Windows 2000 / XP 7 Vista operating system

Maximum alibi records to be stored per day: 400,000.

Alibi records are kept in 12 months.

Weighing instruments shall be assigned a fixed TCP / IP address.

4. Weighing instruments to be connected

M12-DSD is intended for use with both Non-automatic weighing instruments (NAWIs) and Automatic weighing instruments (AWIs) based on the M2200 weighing indicator with software version 3.00-40 or higher, however any weighing instrument supporting the TCP / IP protocol used by M12-DSD may be connected to it.

5. Functions and facilities

- Receiving secured alibi records for connected weighing instruments
- Secure in database on disk
- Displays currently connected weighing instruments
- Displays a list of last 500 received and accepted alibi records
- Alibi lookup of stored records based on Alibi number.

6. Interfaces and peripheral devices

M12-DSD communicates with the connected weighing instruments over Ethernet LAN using a TCP / IP protocol.

Apart from this M12-DSD has no interfaces, neither communication interfaces to external / peripheral devices, nor to software applications.

7. Impositions and conditions

The M12-DSD meets the requirements only when it is correctly loaded, displaying its identification (see Section 8), and connections are established to the active weighing instruments. Only but then it may be used for purposes subject to legal control. This should daily be checked by the user. An explicit hint to that shall be given in the User guide.

8. Inscriptions and sealing

The header of the program window contains the following,

- Name of the software program (“M12-DSD”)
- Version no. (“V1.0.15”)
- Checksum of program module (“CRC 1750949026”)
- No. of this test certificate (“Approval No. DK0199-Alibi-07.01”)

No sealing of M12-DSD is to be performed, as M12-DSD contains no type parameters (TP) and device parameters (DP).

9. Additional information for the EC verification

A copy of this test certificate and the user's guide for M12-DSD has to be supplied at verification of a connected weighing instrument.

At verification time a visual inspection, as well as a comparison of weights displayed on the connected weighing instrument(s) and weights looked-up in this Alibi system, should be performed. Furthermore the program header shall be checked against the information in Section 8.

10. Documentation

- M12-DSD V&M description, version 1.02, May 2007.
- M12-DSD User Guide, version 1.02, May 2007.
- M2200 Setup for the M12-DSD Alibi Storage, version 1.0, December 12th 2005

The documents are filed at DELTA.

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 2.3 (2005), WELMEC Guide 2.5 (2000), 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.

In accordance to WELMEC Guide 2.5 (2000), section 5.1 and 3.3 no additionally tests of the PC are necessary as it carries a CE mark.