

EU-type examination certificate

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Project number 2621235
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Issued by

NMi Certin B.V.,
designated and notified by the Netherlands to perform tasks with respect to
conformity modules 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:

Manufacturer

Quantronix Inc.
314 South 200 West
P.O. Box 929
Farmington Utah, 84025
United States of America

Measuring instrument

A Non-automatic weighing instrument

Type : CS150-L
Cubiscan 150-TLFT

Further properties are described in the annexes:

- Description T7754 revision 2;
- Documentation folder T7754-2.

Valid until

14 June 2030

Remark

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

Issuing Authority

NMi Certin B.V., Notified Body number 0122
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Certification Board

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Description

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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.

This certificate contains references to other certificates. The properties mentioned in these certificates shall be observed in addition to the properties mentioned in this certificate.

1.1 Essential parts

The electronics;
The mechanical assembly with load cell.

See block diagrams;

| Number | Pages | Description | Remarks |
|-----------|-------|---------------------------------|---------|
| 7754/0-01 | 1 | Interconnection diagram CS150-L | - |
| 7754/1-01 | 1 | Block diagram Cubiscan 150-TLFT | - |

EMI protection measures (model CS150-L):

- Ferrite bead around the cable between power supply and motherboard (power supply side);
- Ferrite bead around the cable between junction box and motherboard (junction box side);
- Ferrite bead around the cable to the Ethernet connection (motherboard side);
- Ferrite bead around the cable to the USB connection (motherboard side);
- See also drawing number 7754/0-01.

EMI protection measures (model Cubiscan 150-TLFT):

- Ferrite on the cable of the power supply to the indicator.

1.2 Essential characteristics

| | | | |
|-----------------------------------|---|-----------------------|---------------------|
| Accuracy class | III | | |
| Maximum capacity | Max \leq 60 kg | | |
| Verification scale interval | e \geq 50 g | | |
| Weighing range | Single interval | | |
| Maximum number of scale intervals | n \leq 1200 | | |
| Temperature range | -10 °C / +40 °C | | |
| Power supply voltage | 240 V AC 50 Hz 100 – 240 V AC 50/60 Hz (for Cubiscan 150-TLFT) | | |
| Software identification | Model: | CS150-L | Cubiscan 150-TLFT |
| | Version: | 4.YZZ (Y,Z = 0 ... 9) | 5.xxx (x = 0 ... 9) |

Software identification:

- For model CS150-L: the software version number will be displayed during the power-up sequence of the instrument in the Dim-Weight field of the display:
- For model Cubiscan 150-TLFT: Press 'about' and 'version' to display the software identification.

The non-automatic weighing instrument has embedded software.

1.3 Essential shapes

| Number | Pages | Description | Remarks |
|-----------|-------|-----------------------|---------|
| 7754/0-02 | 2 | CS150-L Main assembly | - |

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

Inside the cabinet is an adjustment lock, located on the main board.

1.4 Conditional parts

The non-automatic weighing instrument may be equipped with peripheral equipment which is used for the applications listed in Directive 2014/31/EU Article 1(2), (a) to (f), provided that the peripheral equipment is certified to be connected to a non-automatic weighing instrument by a Notified Body responsible for type examination under Directive 2014/31/EU, or, that the equipment and the use of the equipment complies with the requirements of WELMEC 2.10 Issue 2021 annex B2.

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 |
|-----------|-------|--|----------------------|
| 7754/0-03 | 2 | PCB component layout for ASY 12329 | - |
| 7754/0-04 | 1 | PCB assembly motherboard CS150-L | - |
| 7754/0-05 | 2 | AD101B (ADC Board) | - |
| 7754/0-06 | 1 | PCB assembly load cell summing | - |
| 7754/1-02 | 2 | PCB assembly load cell summing Cubiscan 150-TLFT | Including parts list |
| 7754/1-03 | 2 | Main board Cubiscan 150-TLFT | Including parts list |

Analog data processing device (For model Cubiscan 150-TLFT):

| Producer | Type | Certificate number |
|-----------------|-----------------------|--------------------|
| Haus & Bach ApS | LDU 178.1 / LDU 179.1 | 0200-WL-05918 |



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2.1.2 Essential characteristics

List of legally relevant functions:

- Determination stability of equilibrium;
- Zero indicating;
- Semi-automatic zero-setting;
- Zero-tracking;
- Adjustment / set-up mode via a switch on the main board;
- Acting upon significant faults;
- Checking the display (for model CS150-L);
- Memory storage.

2.1.3 Conditional parts

Power supply:

- For model CS150-L:
AC/DC plug-in power supply: XP power, type: AEH45US12.
- For model Cubiscan 150-TLFT:
AC/DC plug-in power supply: CINCON ELECTRONICS CO., LTF, type TRH50A120Y.

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

- RS232C;
- USB;
- Ethernet.

2.1.4 Non-essential parts

Display;
Keyboard.

2.2 The mechanical assembly with load cell

2.2.1 Essential parts

For model CS150-L:

| Number | Pages | Description | Remarks |
|-----------|-------|-------------|---------|
| 7754/0-07 | 3 | HBM Z6C3 | - |

For model Cubiscan 150-TLFT:

| Producer | Type | Certificate number |
|--|------|--------------------|
| TÉNICAS DE ELECTRÓNICA Y AUTOMATISMOS S.A. | 300 | E-97.02.C02 |

2.2.2 Essential characteristics

$e \geq E_{\max}/10000$;
Excitation voltage 5 V DC.

2.2.3 Essential shapes

| Number | Pages | Description | Remarks |
|-----------|-------|-----------------------|---------|
| 7754/0-08 | 2 | Base assembly CS150-L | - |

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 |
|-----------|-------|------------------------------|---------|
| 7754/0-09 | 7 | CS150-L sealing instructions | - |
| 7754/1-04 | 2 | Cubiscan 150-TLFT sealing | - |

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 compatibility of load cells and analog data processing device is established by the manufacturer by means of the compatibility of modules form, contained in EN 45501:2015 clause F.4, at the time of putting into use.