

# EU-type examination certificate

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Page 1 of 1

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

Measuring instrument

**A Non-automatic weighing instrument**

Type : Cubiscan 100-LFT  
Cubiscan 100-TLFT

Further properties are described in the annexes:

- Description T8635 revision 1;
- Documentation folder T8635-2.

Valid until

5 December 2024

Remarks

This revision replaces the earlier version, including its documentation folder.

Issuing Authority

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

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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.

### 1.1 Essential parts

The electronics;  
The mechanical assembly with load cell.

See block diagrams:

Number	Pages	Description	Remarks
8635/0-01	1	Block diagram Cubiscan 100-LFT	-
8635/1-01	1	Block diagram Cubiscan 100-TLFT	-

EMI protection measures (for model Cubiscan 100-LFT):

- Ferrite on the cable of the power supply to the indicator;
- Ferrite on the combined ultrasonic sensor cables to the indicator;
- Ferrite on the cable of the barcode scanner.

EMI protection measures (for model Cubiscan 100-TLFT):

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

### 1.2 Essential characteristics

Accuracy class	III
Maximum capacity	Max ≤ 50 kg
Verification scale interval	e ≥ 20 g
Weighing range	Single interval
Maximum number of scale intervals	n ≤ 2500
Temperature range	-10 °C / +40 °C
Power supply voltage	100 – 240 V AC 50/60 Hz
Software identification	Version number 4.xxx (x = 0... 9) or 5.xxx (x = 0... 9)

For model Cubiscan 100-LFT: the software identification is displayed at start-up;  
For model Cubiscan 100-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
8635/0-02	2	Exploded view of main body Cubiscan 100-LFT	-
8635/1-02	2	Exploded view of main body Cubiscan 100-TLFT	-
8635/0-03	1	Exploded view of display unit Cubiscan 100-LFT	-
8635/1-03	3	Exploded view of display unit Cubiscan 100-TLFT	-

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 Article 1(2), (a) to (f) of Directive 2014/31/EU, 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 2.5 Issue 2 clause 2.2.

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 Article 1(2), (a) to (f) of Directive 2014/31/EU unless the "Preliminary observation" in Annex I of the Directive 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
8635/0-04	2	Main board Cubiscan 100-LFT	Including parts list
8635/1-04	2	Main board Cubiscan 100-TLFT	Including parts list
8635/1-05	5	Digital load cell board Cubiscan 100-TLFT	Including parts list

#### 2.1.2 Essential characteristics

List of legally relevant functions:

- Determination stability of equilibrium;
- Zero indicator;
- Semi-automatic zero-setting;
- Initial zero-setting (only for model Cubiscan 100-LFT);
- Zero-tracking;
- Adjustment / set-up mode via a switch on the main board;
- Acting upon significant faults;
- Checking the display;
- Data Storage Device that complies with OIML R 76 (2006) clause 5.5.3 and EN 45501:2015 clause 5.5.3.

#### 2.1.3 Conditional parts

Power supply:

- For model Cubiscan 100-LFT:  
Manufacturer: XP Power, type: AEH45US12.
- For model Cubiscan 100-TLFT:  
Manufacturer: CINCON ELECTRONICS CO., LTD, 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:

- RS232;
- USB (only for model Cubiscan 100-TLFT);
- Ethernet (<30 meters for model Cubiscan-LFT).

#### 2.1.4 Non-essential parts

Display;  
Keyboard.

## 2.2 The mechanical assembly with load cell

### 2.2.1 Essential parts

Number	Pages	Description	Remarks
8635/0-05	3	Load cell specification	For model Cubiscan 100-LFT
8635/1-06	2	Digital load cell	For model Cubiscan 100-TLFT

### 2.2.2 Essential characteristics

$e \geq E_{\max}/5000$ ;

Excitation power supply:

- 8 V DC (for model Cubiscan 100-LFT);
- 5 V DC (for model Cubiscan 100-TLFT).

### 2.2.3 Essential shapes

Number	Pages	Description	Remarks
8635/0-06	3	Load cell assembly	-

## 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
8635/0-07	1	Sealing of instrument Cubiscan 100-LFT	-
8635/1-07	1	Sealing of instrument Cubiscan 100-TLFT	-

## 4 Conditions for conformity assessment

The marks, facilities for the marks and the inscriptions on the non-automatic weighing instrument fulfil the requirements of point 1 of Annex III of Directive 2014/31/EU.