

EC type-approval certificate

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Issued by

NMi Certin B.V.

Hugo de Grootplein 1 3314 EG Dordrecht The Netherlands

Notified Body Number 0122

In accordance

with

The Council Directive 90/384/EEC on non-automatic weighing instruments.

Applicant

Mettler-Toledo GmbH

Im Langacher 8606 Greifensee Switzerland

In respect of

A class , self indicating, electronic, single-interval, single-range

non-automatic weighing instrument. Mettler-Toledo Manufacturer

Type

XS...

Characteristics

 $50 \text{ g} \leq \text{Max} \leq 220 \text{ g}$

e = 1 mq $d \le e \le 100d$

 $n \le 220000$ divisions

Temperature range +10 °C / +30 °C

In the description number T6361 revision 0 further characteristics are described.

Valid until

12 November 2013

Description and The instrument is described in the description number T6361 revision 0 and documentation documented in the documentation folder T6361-1, appertaining to this

EC type-approval certificate.

Delft, 12 November 2003

NMi Certin B.V.

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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, may not be in conflict with the legislation.

1.1 Essential parts

See drawing "Prinzipschema", drawing number ME-11106995;

The electronics;

The mechanical assembly with weighing cell.

EMC protection measures:

- The electronic boards and the weighing cell are placed in a metal case;
- Ferrite around the flatcables between the main board and the housing of the weighing cell.

1.2 Essential characteristics

Power supply: 100 - 240 V AC, 50/60 Hz.

1.3 Essential shapes

The non-automatic weighing instrument is built according to drawings:

- "XS-Balances", drawing number ME-11505515;
- "Carrying handle, Electronics, Frontcover", drawing number 11780583 / 3-4;
- "Cantilever arm", drawing number 11780583 / 3-5.

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

 "Position of metrological markings, stickers and securing sticker", drawing number ME-11505518.

The securing component has to bear either:

- A mark of the manufacturer laid down in a notified body approved quality system (Annex II of the directive 90/384/EEC), or
- An official mark of a Member State of the EEC, or an other party to the EEA agreement.

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) of the EC Directive (90/384/EEC), if the peripheral equipment is certified to be connected to an EC type-approved non-automatic weighing instrument by a Notified Body appointed to certify non-automatic weighing instruments according to paragraph I of Annex II of the EC directive on Non-Automatic Weighing Instruments. A level indicator that shows that the maximum tilt is being exceeded.



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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 display's and cash drawers, provided that:

- They do not present primary data used for purposes mentioned in article 1(2)(a) of the EC Directive (90/384/EEC) unless the "preliminary observations" in Annex 1 of this directive is satisfied.
- They do not lead to an instrument having other essential characteristics than those fixed by this type-approval document.

AC/DC-adapter.



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2 Information about the main constituent parts of the non-automatic weighing instrument

2.1 The electronics

2.1.1 Essential parts

Description	Drawing number	Rev.	Remarks
Main board	ME-11106912	C	Drawing
Main board Tigris2	11106912	7832	Parts list (10 pages)
Transducer board	ME-11106924	A	Drawing
Transducer board VAR.1	11106924	7448	Parts list (3 pages)

2.1.2 Essential characteristics

List of devices:

- Determination stability of equilibrium;
- Semi-automatic zero-setting;
- Initial zero-setting;
- Zero-tracking;
- Semi-automatic subtractive tare setting;
- Tare weighing;
- Gross weighing;
- Indication of unstable equilibrium;
- Automatic span adjustment (FACT) with internal calibration mass; operational when:
 - 0.5, 1, 1.5 and 2 hours after switch on and then with $\Delta t = 1.0$ °C;
 - On every 24 hours.
- Semi-automatic span adjustment with internal or external calibration mass;
- Acting upon significant faults;
- Checking the display;
- Underhook weighing;
- Weight unit selection (g, mg, custom units in the form of xxxx);
- Indications other than primary indications;
- Indication of additional information;
- Downloading coded non-metrological software as flashfiles;
- Formulation for adding different components;
- Statistics;
- Determination of the density.

2.1.3 Conditional parts

AC/DC adapter Model: PSU30A-3, Input 100-240 V AC, Output 12 V DC, I_{max} 2.25 A, P_{max} 27 W.



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The interface section is located on the main board. The non-automatic weighing instrument may be equipped with one or more of the following protective interfaces that have not to be secured:
- RS232C.

2.1.4 Non-essential parts

Display; Keyboard.

2.2 The mechanical assembly with weighing cell

2.2.1 Essential parts

Description	Drawing number	Rev.	Remarks
Weighing cell	11780583 / 3-6	9/2003	

2.2.2 Essential characteristics

Characteristics of the available weighing cells: Max = 280g and $e \ge 1$ mg.

2.2.3 Essential shapes

Description	Drawing number	Rev.	Remarks
Weighing cell	11780583 / 3-6	9/2003	

3 Approval conditions

See chapter 1.3, essential shapes.

4 Seals and verification marks

See chapter 1.3, essential shapes.

5 CE-mark of conformity and inscriptions

The marks, facilities for the marks and the inscriptions on the non-automatic weighing instrument fulfill the requirements of article 1 of Annex IV.

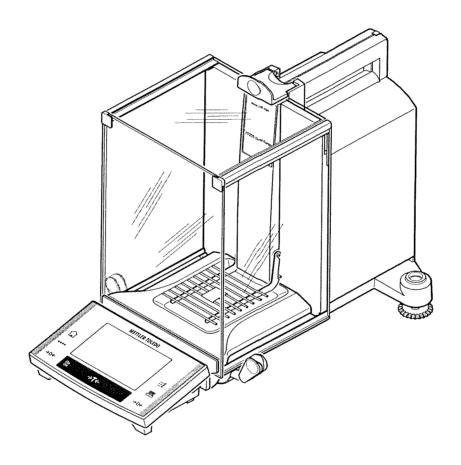


Documentation folder

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Description	Drawing number	Rev.	Remarks
XS-Balances	ME-11505515		
Carrying handle, Electronics, Frontcover	11780583 / 3-4	9/2003	
Cantilever arm	11780583 / 3-5	9/2003	
Position of metrological markings, stickers and securing sticker	ME-11505518		
Prinzipschema	ME-11106995	А	
Main board Main board Tigris2	ME-11106912 11106912	C 7832	Drawing Parts list (10 pages)
Transducer board Transducerboard VAR.1	ME-11106924 11106924	A 7448	Drawing Parts list (3 pages)
Weighing cell	11780583 / 3-6	9/2003	

XS - Balances



ME-11505515

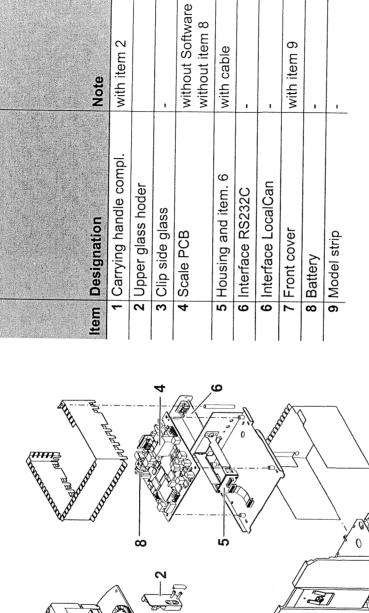
XS204B XS204BDR

XS205BDU Order No.111106816
111106496
111106435

XS64B XS104B XS105BDU



Carriyng handle, Electronics, Front cover

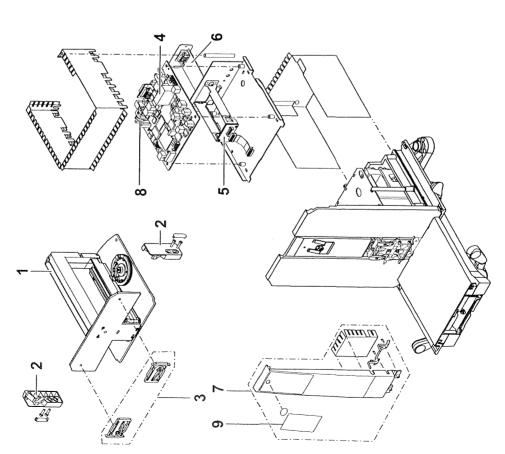


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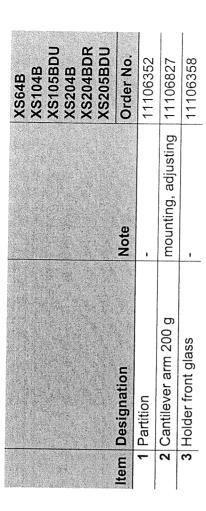
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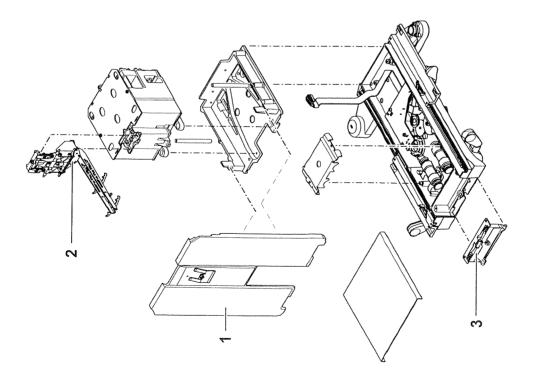


3-5

Cantilever arm





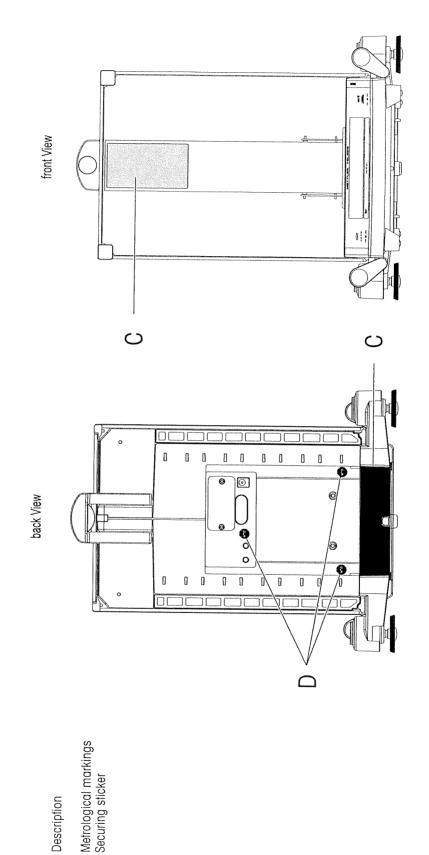


XS - Balances

Description

Code

 $\bigcirc \Box$



Position of metrological markings stickers and securing sticker.

ME-11505518