



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 **I**, electronic, single-interval, single-range **non-automatic weighing instrument**.
Manufacturer : Mettler-Toledo
Type : XS..., XP... or QD...

Characteristics Max \leq 520 g
e = 1 mg
d \leq e \leq 10000 d
n \leq 520000 divisions
Temperature range +10 °C / +30 °C

In the description number T6361 revision 2 further characteristics are described.

Valid until 12 November 2013

Description and documentation The instrument is described in the description number T6361 revision 2 and documented in the documentation folder T6361-3, appertaining to this EC type-approval certificate.

Remarks This revision EC type-approval certificate replaces the earlier versions, including its documentation folder.

Dordrecht, 18 June 2008
NMI Certin B.V.

Ing. C. Oosterman
Manager Product Certification

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 the 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;
- "XP-Balances", drawing number ME-11505618;
- "QD Dosing Systems", drawing number ME-11505767;
- "Carrying handle, Electronics, Frontcover", drawing number 11780583 / 3-4;
- "Cantilever arm", drawing number 11780583 / 3-5;
- "XS and XP Micro Balances", drawing number ME-11505762;
- "Control Unit", drawing number 11781189 / 3-4;
- "Housing Base Weighing Unit", drawing number 11781189 / 3-6.

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:

- "XS-Balances: Position of metrological markings stickers and securing sticker", drawing number ME-11505518;
- "XP & XS-Balances: Position of metrological markings stickers and securing sticker", drawing number ME-11505627;
- "Standort Eichschilder XP..XS Mikrowaagen", drawing number ME-11505758.

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 another 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.

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 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.

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 11106912	C 7832	Component layout Reference parts list
Main board high	ME-11106960 SL-11106960	A, G --	Component layout Reference parts list
Transducer board	ME-11106924 SL-11106924	A, B, D --	Component layout Reference parts list
Transducer board PP V.1	ME-11106927 SL-11106927	A, C --	Component layout Reference parts list
Transducer board Micro	ME-11106933 SL-11106933	C --	Component layout Reference parts list
Cell board XM / XU	ME-11122840 SL-11122840	A --	Component layout Reference parts list
Cell Connboard Var.1	ME-11122802 SL-11122802	A --	Component layout Reference parts list
Pos. Sensor board MX	ME-11100710 SL-11100710	C --	Component layout Reference parts list
AWG Connboard Var.1	ME-11122807 SL-11122807	B --	Component layout Reference parts list

2.1.2 Essential characteristics

List of devices:

- Determination stability of equilibrium;
- Semi-automatic zero-setting;
- Initial zero-setting;
- Zero-tracking;
- Automatic or semi-automatic subtractive tare setting;
- Preset tare;
- 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, μ g, custom units in the form of xxxx);
- Indication whether the weight is outside the entered target weight with associated tolerances;
- Counting device;
- Percentage indication;
- 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, Input 100-240 V AC, Output 12 V DC, I_{\max} 2 A, P_{\max} 24 W.

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;
- Single point Bluetooth (BTS);
- Aux1 and Aux2.

2.1.4 Non-essential parts

Display;
Keyboard;
Drive sensor board.

2.2 The mechanical assembly with weighing cell

2.2.1 Essential parts

Description	Drawing number	Rev.	Remarks
Weighing cell for XS, XP and QD Analytical Balances	11780583 / 3-6	9/2003	
Weighing cell for XS and XP Micro Balances	11781189 / 3-8	05/2008	

2.2.2 Essential characteristics

Characteristics of the available weighing cells for XS, XP and QD Analytical Balances:

- For instruments with a Max \leq 220 g, the maximum capacity of the weighing cell is 280 g;
- For instruments with a Max \leq 520 g, the maximum capacity of the weighing cell is 560 g.

Characteristics of the available weighing cell for XS and XP Micro Balances:

- The maximum capacity of the weighing cell is 6.1 g with e = 1 mg.

2.2.3 Essential shapes

Description	Drawing number	Rev.	Remarks
Weighing cell for XS, XP and QD Analytical Balances	11780583 / 3-6	9/2003	
Weighing cell for XS and XP Micro Balances	11781189 / 3-8	05/2008	

3 Approval conditions

See chapter 1.3, essential shapes.

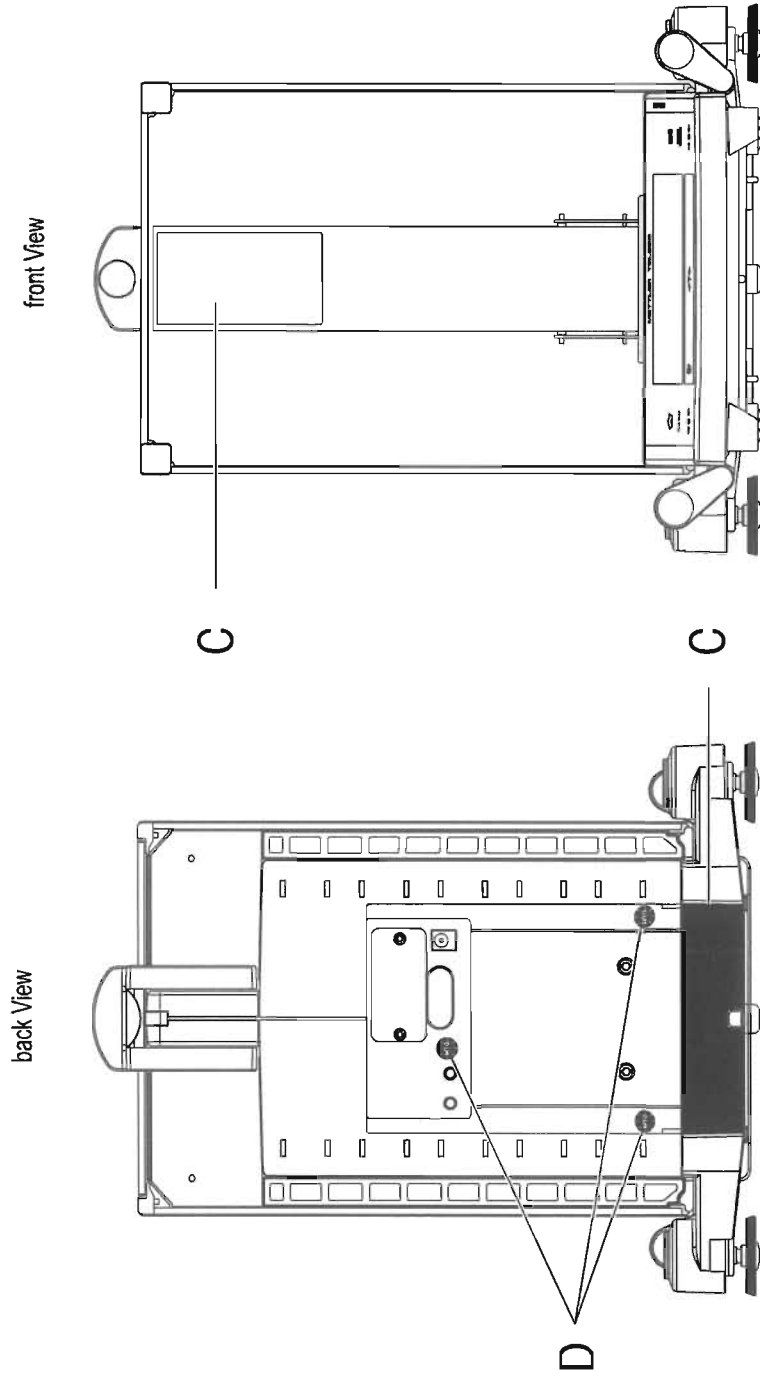
4 Seals and verification marks

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.

XS - Balances



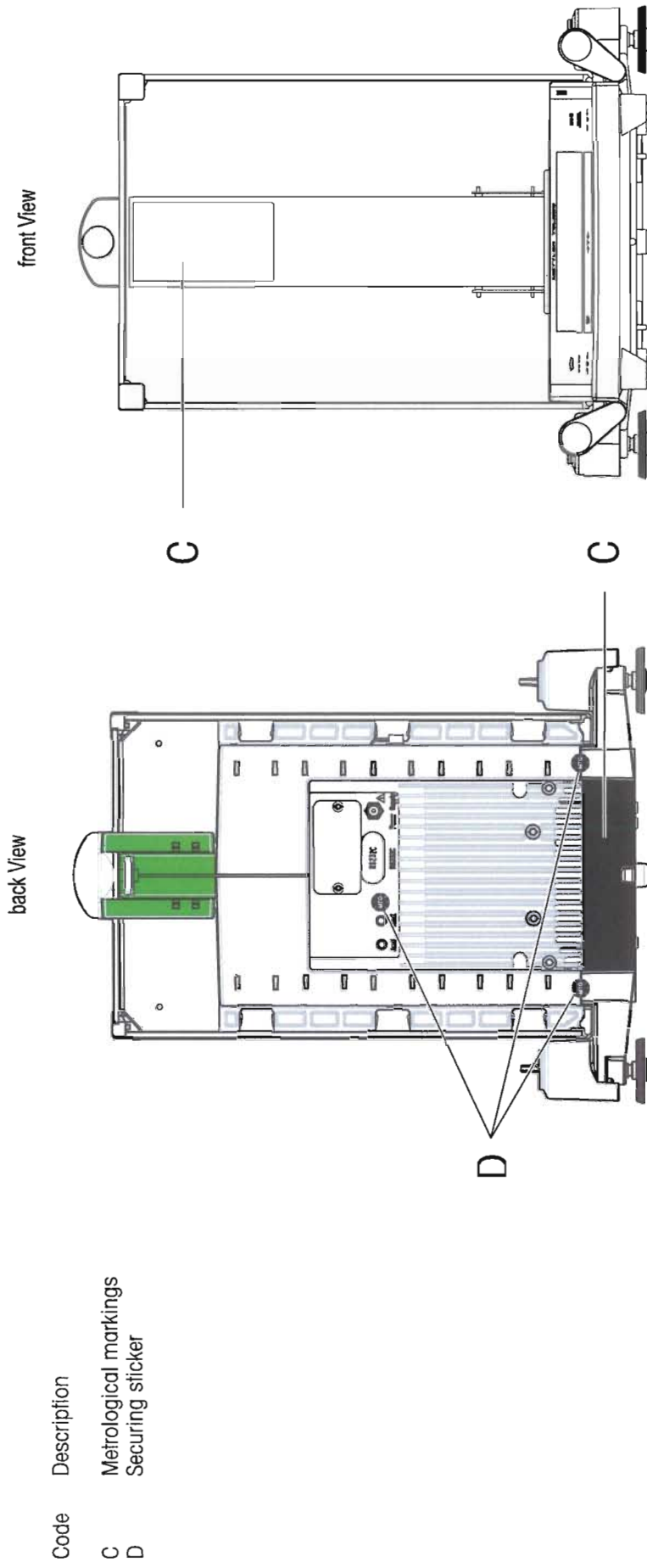
Code Description

- C Metrological markings
- D Securing sticker

Position of metrological markings stickers and securing sticker.

ME-11505518

XP & XS - Balances



Position of metrological markings stickers and securing sticker.

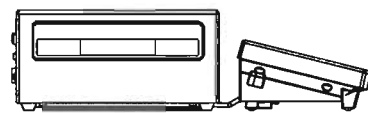
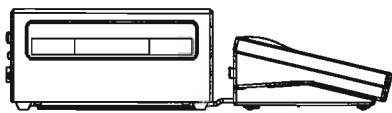
ME-11505627

Code	Nummer	Beschreibung	
B / C	Diverse	Eichschilder	gem. Schilderset
E	Diverse	Sealing-Sticker	gem. Schilderset
D	0002...	wird auf die verpackung geklebt	
1	220'726	M-Kleber grün	gem. Stückliste
2	Diverse	Eichmarke	für div. Länder gem. Stückliste

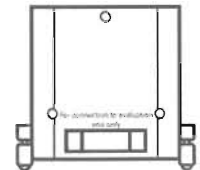
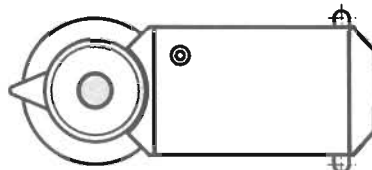
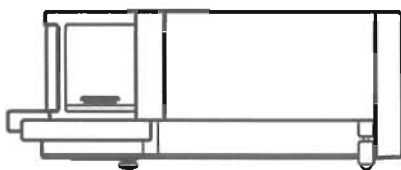
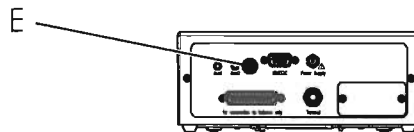
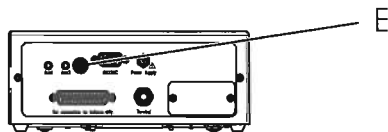
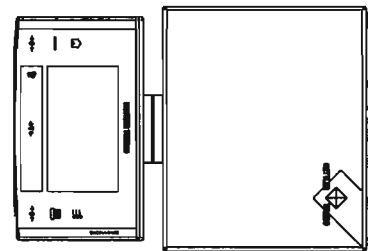
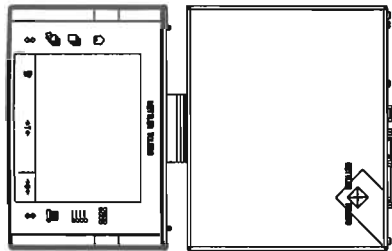
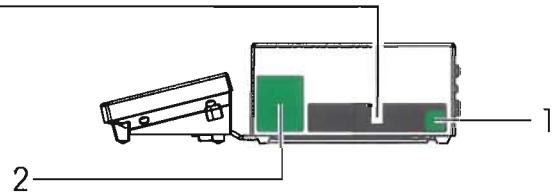
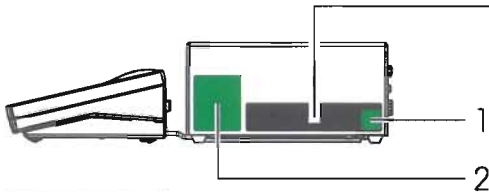
Schilderkategorien	
Code	Schildergruppen
A	Typendatenschilder
B	Eichschilder
C	Kombischilder
D	Typendatenzusatzschilder
E	Eichzusatzschilder
F	Serviceschilder
G	Max-Min-Schilder
H	Hinweisschilder
J	Warnschilder
K	Kundenschilder
L	Patentschilder
M	Netzgerät-Typenschilder
N	Spezialschilder
P	Typenschilder (Spez.-Geräte)

XP...Mikrowaagen

XS...Mikrowaagen



B... / C...



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Hinweis XP... XS... - Mikrowaagen

Standort Eichschilder

ME-11'505'758 A

Ersatz für Ø CD

Ersetzt durch

Blatt

METTLER - TOLEDO