



Nederlands Meetinstituut

# EC type-approval certificate

Number **T5627** revision 3  
Project number 213321  
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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 (Albstadt) GmbH  
Unter dem Malesfelsen 34  
D-72458 Albstadt  
Germany

In respect of A class **II** or **III**, electronic **non-automatic weighing instrument**  
Manufacturer: Mettler-Toledo Ohaus Testut  
Type : VIPER ... Ranger... Cruiser...

Characteristics

<b>II</b>	<b>III</b> multi-interval
$n \leq 35100$ divisions	$n \leq 10000$ divisions (per weighing range)
$1.5 \text{ kg} \leq \text{Max} \leq 35.1 \text{ kg}$	$1.5 \text{ kg} \leq \text{Max} \leq 35.1 \text{ kg}$
$e \geq 0.1 \text{ g}$	$e \geq 1 \text{ g}$
$e = d$ or $e = 10d$	$e = d$
+10 °C / +30 °C	+5 °C / +35 °C

In the description number T5627 revision 3 further characteristics are described.

Valid until 4 February 2010

Description and documentation The instrument is described in the description number T5627 revision 3 and documented in the documentation folder T5627-4, appertaining to this EC type-approval certificate.

Remarks This revision replaces the earlier versions, including its documentation folder.

Delft, 5 December 2002  
NMI Certin B.V.

P.P.M. van Enkevort  
Manager Certification Delft

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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 drawings:

- 'General overview of the VIPER scales', drawing number ME-21203381A;
- 'General overview of the VIPER EX scales', drawing number ME-11505343.

The electronics.

The mechanical assembly with weighing cell.

EMC protection measures:

- The upper and lower case are made of metal.

### 1.2 Essential characteristics

Power supply:

- 12 V DC (supplied by an external AC/DC-adaptor, or battery pack) or;
- 230-240 V AC, 50Hz.

### 1.3 Essential shapes

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

- Overall view Viper small, drawing number ME-21203378;
- Overall view Viper large, drawing number ME-21203379;
- Overall view of the OHAUS "Ranger" scales, drawing number ME-11505083;
- Overall view of the TESTUT "Cruiser" scales, drawing number ME-11505299.

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 drawings:

- "Position of verification- and securing stickers" Viper, drawing number ME-21203371;
- "Position of verification- and securing stickers" Ranger/Cruiser, drawing number ME-11505086;
- "Position of verification- and securing stickers" Viper EX, drawing number 22009308.

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.

Inside the cabinet is a calibration lock, located behind the bottom plate.

## 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 with a sensitivity of at least 2 mm for a tilt of 2/1000.

## 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
Viper Analog Brick Stuecklisten	ME-21203100	C	-- Parts list (3 pages)
ABRICKEX (Analog Brick EX) Stuecklisten	ME-21203576	C	-- Parts list (3 pages)
Print Digital SW Stuecklisten	ME-21203096	H	-- Parts list (4 pages)
Print Digital SWEX Stuecklisten	ME-21203593	B	-- Parts list (4 pages)
Print Digital BC Stuecklisten	ME-21203098	H	-- Parts list (4 pages)
Print Dig. SQC 16 Stuecklisten	ME-21203772	C	-- Parts list (9 pages)
Zellenprint Stuecklisten	ME-225615	D	-- Parts list (2 pages)
Zellenprint Stuecklisten	ME-11102102	B	-- Parts list (2 pages)
Zellenprint BRICK EX Stuecklisten	ME-21203575	F	-- Parts list (2 pages)
Transducer board 760R Stuecklisten	ME-11103705	B	-- Parts list (2 pages)
Abtastung kpl.	ME-217249	--	

## 2.1.2 Essential characteristics

List of devices:

- Changing from kg to lb (only for countries where the use of lb is allowed);
- Auxiliary indicating device with differentiated scale interval;
- Determination stability of equilibrium;
- Semi-automatic zero-setting;
- Initial zero-setting;
- Zero-tracking;
- Semi-automatic subtractive tare weighing;
- Gravity compensation (optional);
- Span adjustment / set-up mode via a service switch behind the bottom plate;
- Weighing unstable samples;
- Indications other than primary indications;
- Acting upon significant faults;
- Display checking.

## 2.1.3 Conditional parts

The interface section is located on the main board and optional on separate interface boards. 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.

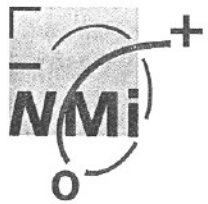
## 2.2 The mechanical assembly with weighing cell

### 2.2.1 Essential parts

Description	Drawing number	Rev.	Remarks
Force transmission ( 6kg version)	ME-21203374	--	
Force transmission (60 kg version)	ME-21203375	--	

### 2.2.2 Essential characteristics

See for Max capacities the drawings: ME-21203374 and ME-21203375.



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# Description

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### **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.