

Nederlands Meetinstituut

# EC type-approval certificate

Number **T5508** revision 0  
Project number 10103077  
Page 1 of 4

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 **(III)** electronic, single- or multi-range **non-automatic weighing instrument**.  
Manufacturer : Mettler-Toledo  
Type : Viper .....

Characteristics  $n \leq 7500$  divisions  
 $n \leq 3500$  divisions (per weighing range)  
maximum of two weighing ranges  
 $1.5 \text{ kg} \leq \text{Max} \leq 60 \text{ kg}$   
 $e \geq 0.2 \text{ g}$

In the description number T5508 revision 0 further characteristics are described.

Valid until 27 May, 2009

Description and documentation The instrument is described in the description number T5508 revision 0 and documented in the documentation folder T5508-1, appertaining to this EC type-approval certificate.

Dordrecht, 27 May 1999  
NMI Certin B.V.

*h/c*

R.J.T.C. Diepstraten  
Head Type Approval Measuring Instruments

Nederlands Meetinstituut  
Hugo de Grootplein 1  
3314 EG Dordrecht  
Telephone +31 78 6332332  
Telefax +31 78 6332309

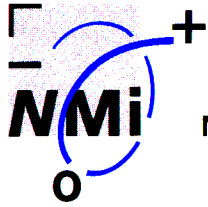
NMI B.V. (Chamber of Commerce Haaglanden  
No.27228701)

Subsidiary companies:  
NMI Certin B.V. (27233418)  
NMI Van Swinden Laboratorium B.V. (27228703)  
NMI International B.V. (27239176)

This document is issued under the provision  
that NMI, B.V. nor its subsidiary companies  
accept any liability.

Reproduction of the complete document is  
allowed. Parts of the document may only be  
reproduced after written permission





## 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 "General overview of the VIPER scales", drawing number ME-21203381;  
The electronics  
The mechanical assembly with load cell.

### 1.2 Essential characteristics

Power supply:

- 110 V AC, 50/60 Hz;
- 230 V AC, 50/60 Hz;
- Battery pac (8 x 1.5 V DC);
- Accu Pac 12 V DC.

### 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.

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 the drawing "Position of verification- and securing stickers" with number ME-21203371.

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 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) 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
Print VIP AN 7K Stuecklisten	ME-21203092	A	-- Parts list 3 pages
Print Viper Dig Stuecklisten	ME-21203096	A	-- Parts list 4 pages

#### 2.1.2 Essential characteristics

List of devices:

- initial zero-setting;
- semi-automatic zero-setting;
- zero-tracking;
- determination stability of equilibrium;
- semi-automatic subtracting tare balancing;
- automatic tare balancing;
- semi-automatic subtracting tare weighing;
- automatic tare weighing;
- calibration / set-up mode via a switch on the main board;
- acting upon significant faults;
- checking the display;
- Automatic shutoff.

## 2.1.3 Conditional parts

The interface section is located on the main board and optional on a 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 load cell

### 2.2.1 Essential parts

Description	Drawing number	Rev.	Remarks
Load Cell C-S	ME-21203154A	--	--
Load Cell C-L	ME-21203155A	--	--

### 2.2.2 Essential characteristics

$e \geq E_{max}/12500$ ;

Excitation power supply 8 V DC.

## 3 Approval conditions

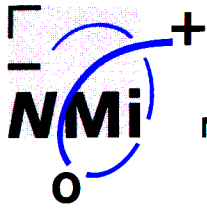
See chapter 1.3, essential shapes

## 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 fulfil the requirements of article 1 of Annex IV.



Nederlands Meetinstituut

# Documentation folder

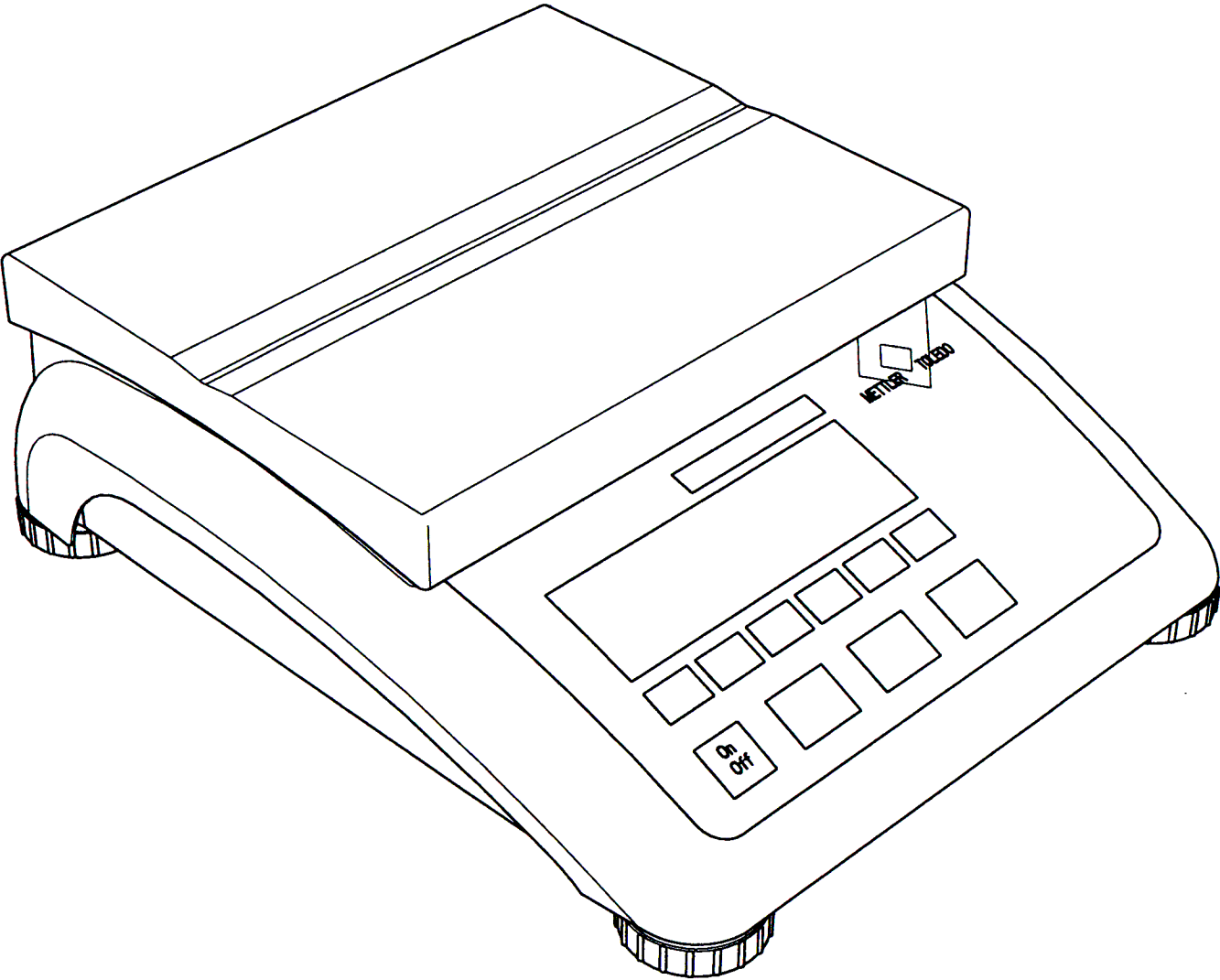
Number **T5508-1**  
Project number 10103077  
Page 1 of 1

Description	Drawing number	Rev.	Remarks
Overall view Viper small	ME-21203378		
Overall view Viper large	ME-21203379		
Position of verification- and securing stickers	ME-21203371		
General overview of the VIPER scales	ME-21203381		
Print VIP AN 7K Stuecklisten	ME-21203092	A	-- Parts list 3 pages
Print Viper Dig Stuecklisten	ME-21203096	A	-- Parts list 4 pages
Load Cell C-S	ME-21203154A	--	--
Load Cell C-L	ME-21203155A	--	--

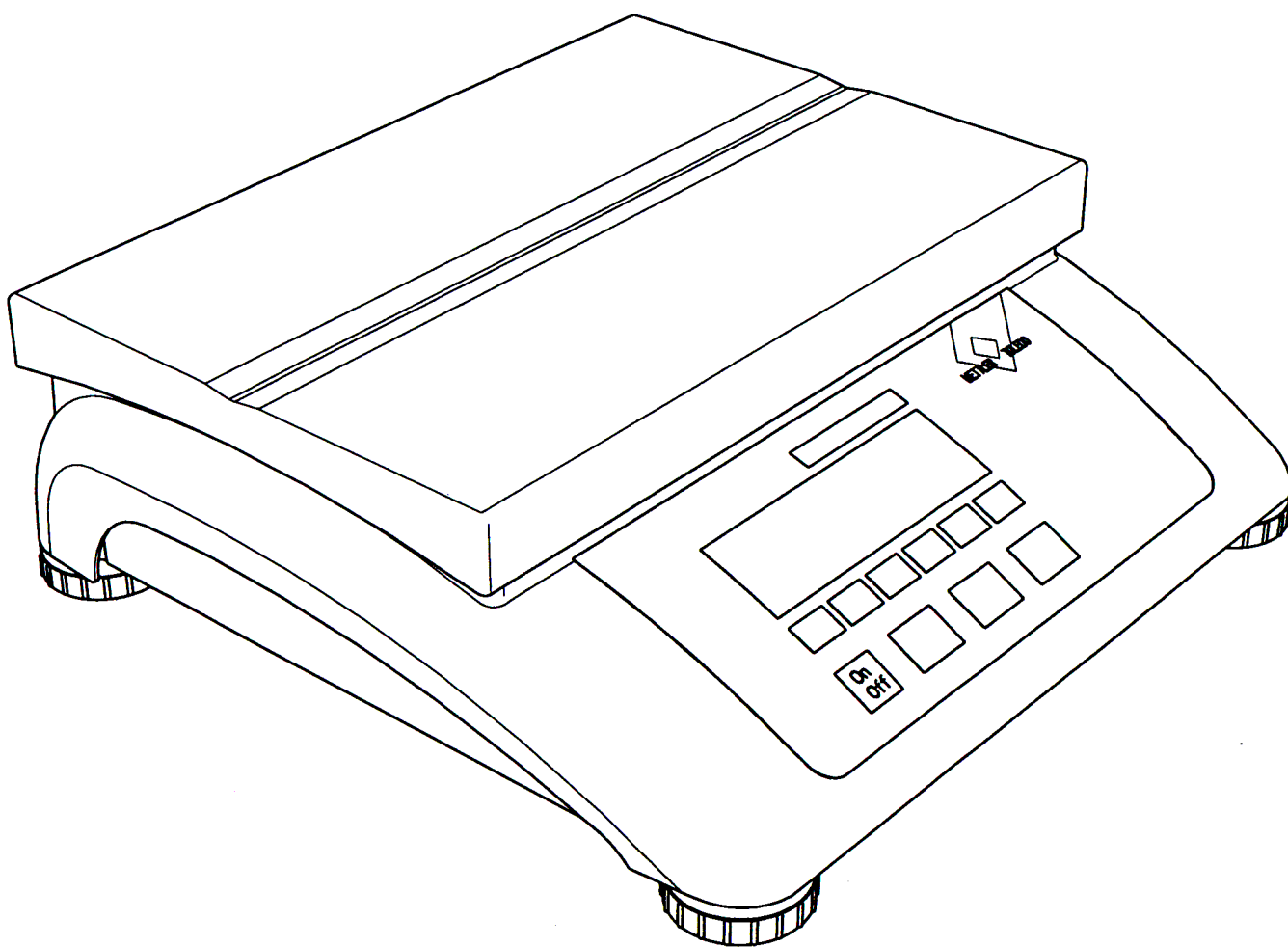
Gesamtansicht Viper klein

Overall view Viper small

Vue d'ensemble Viper petit



Gesamtansicht Viper gross  
Overall view Viper large  
Vue d'ensemble Viper grand

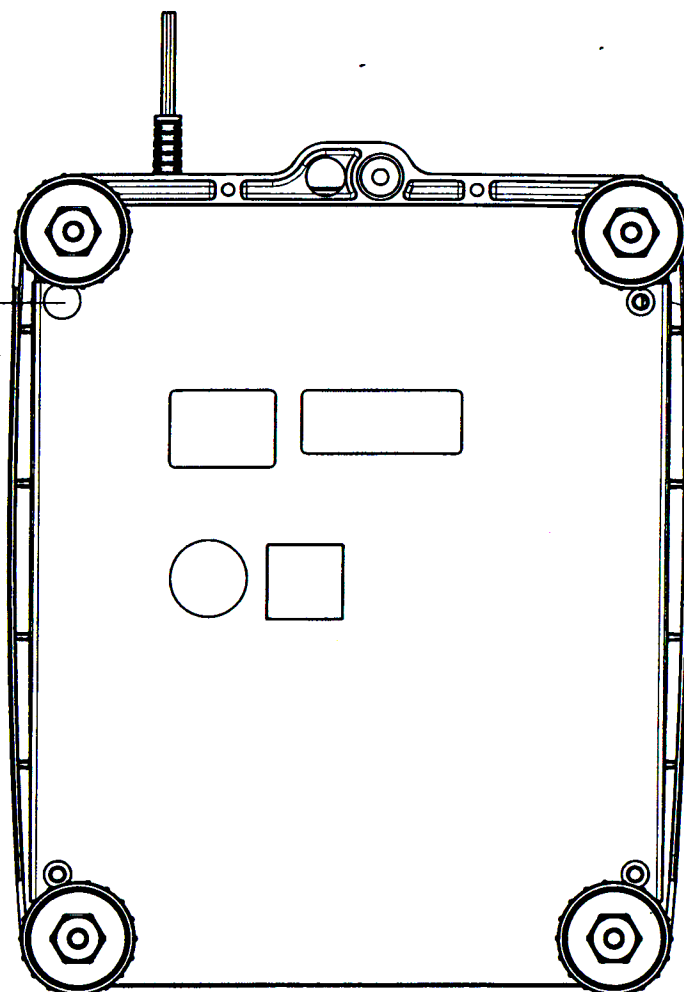


# Standort Eichschilder

Position of verification- and securing stickers

Position de la plaque signalétique et du sceau

Sicherungskleber  
Securing sticker  
Sceau autocollant



Eichschild  
Certification plate  
Plaque signalétique

