



Nederlands Meetinstituut

Member State  
The Netherlands

OIML Certificate N°R76/1992-NL-98.24

Project number 10066939

Page 1 of 2

## OIML CERTIFICATE OF CONFORMITY

### Issuing authority

Name: NMI Certin B.V.  
Address: Hugo de Grootplein 1, Dordrecht  
Person responsible: M. Charité

### Applicant

Name: CAS Corporation  
Address: CAS Factory  
#19 Kanap-ri, Kwangjeok-myun  
Yangju-kun, Kyunggi-do  
Korea

### Manufacturer of the certified pattern

Name: CAS Corporation  
Address: CAS Factory  
#19 Kanap-ri, Kwangjeok-myun  
Yangju-kun, Kyunggi-do  
Korea

### Identification of the certified pattern

Type : DB-1H  
 $30 \text{ kg} \leq \text{Max} \leq 150 \text{ kg}$   
 $e \geq 10 \text{ g}$   
 $n \leq 3000 \text{ divisions}$

This certificate attests the conformity of the above-mentioned pattern (represented by the samples identified in the associated test report, the type-approval certificate and the description with number T5349 and the appertaining documentation folder), with the requirements of the following Recommendation of the International Organisation of Legal Metrology (OIML):

R76  
edition 1992  
for accuracy class **III**

This certificate relates only to the metrological and technical characteristics of the pattern of the instrument concerned, as covered by the relevant OIML International Recommendation(s).

This certificate does not bestow any form of legal international approval.

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



QUALIFIED  
BY STERLAB  
Reg. nr. L 029



Nederlands Meetinstituut

**Member State**  
The Netherlands

**OIML Certificate N° R76/1992-NL-98.24**  
Project number 10066939  
Page 2 of 2

The conformity was established by tests described in the associated test report:  
N° R76/1992-NL-98.24, that includes 51 pages.

The issuing authority  
M. Charité

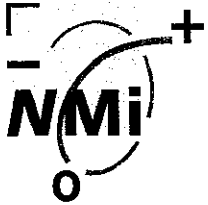
27 August 1998

The OIML member  
G.J. Faber

\*  
\*\*

---

Important note: Apart from the mention of the certificate's reference number and the name of the OIML Member State in which the certificate was issued, partial quotation of the certificate or of the associated test report is not permitted, though they may be reproduced in full.



Nederlands Meetinstituut

# EC type-approval certificate

Number **T5349** revision 1  
Project number 10115924  
Page 1 of 4

Issued by NMI Certin B.V.  
Hugo de Grootplein 1  
3314 EG Dordrecht  
The Netherlands

Notified Body Number 122

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

Applicant CAS Corporation  
CAS Factory  
#19 Kanap-ri, Kwangjeok-myun  
Yangju-kun, Kyunggi-do  
Korea

In respect of A class **III**, electronic, single-interval **non-automatic weighing instrument**.  
Manufacturer : CAS  
Type : DB-1H

Characteristics  $n \leq 3000$  divisions  
 $30 \text{ kg} \leq \text{Max} \leq 150 \text{ kg}$   
 $e \geq 10 \text{ g}$

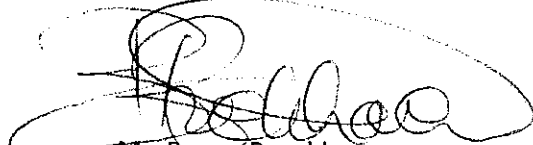
In the description number T5349 revision 1 further characteristics are described.

Valid until 25 August, 2008

Description and documentation The instrument is described in the description number T5349 revision 1 and documented in the documentation folder T5349-2, appertaining to this EC type-approval certificate.

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

Delft, 29 February, 2000  
NMI Certin B.V.



Ms. B. van Broekhoven  
Manager Certification Delft

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)

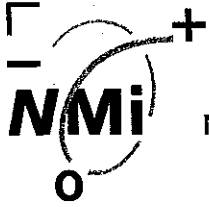
Subsidiary companies  
NMI Certin B.V. (+27233418)  
NMI Van Swinden Laboratorium B.V. 27228703  
NMI International B.V. (+27239176)

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.



QUALIFIED  
BY STERLAB  
Reg. nr. L 029



## 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 wiring diagram, drawing number 6114-A01-0720;  
The electronics  
The mechanical assembly with load cell.

EMC protection measures:

- the casing is painted with conductive paint on the inside;
- the analog module (CAM01) and digital module (CDM01) are shielded with a metal cover;
- a filter on the AC entry;
- a ferrite on the cable from the transformer to the main board;
- two ferrites on the load cell cable, one on the inside and one on the outside of the casing.

### 1.2 Essential characteristics

Power supply: 110 V, or 220 V AC, 50/60 Hz.

### 1.3 Essential shapes

The non-automatic weighing instrument is built according to drawing Sealing method, drawing number 3005-DBH-0010.

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 drawings:

- Sealing method(L/C sealing), drawing number 3005-DBH-0010;
- Sealing method, drawing number -6-;
- Sealing method, drawing number 3005-D8H-0001.

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

A level indicator with a sensitivity of at least 2 mm for a tilt of 2/1000.

## 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	-22-	-	3 pages including parts list
CAM module	6144-M00-0100	-	2 pages including parts list

#### 2.1.2 Essential characteristics

List of devices:

- initial zero-setting;
- semi-automatic zero-setting;
- zero-tracking;
- zero indicator;
- semi-automatic tare balancing;
- calibration / set-up mode via a switch on the main board;
- acting upon significant faults;
- checking the display.

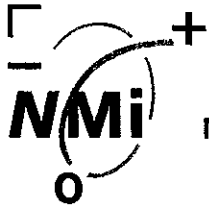
#### 2.1.3 Non-essential parts

Display.

## 2.2 The mechanical assembly with load cell

#### 2.2.1 Essential parts

Description	Drawing number	Rev.	Remarks
Exploded view	6004-DB0-0010		



## 2.2.2 Essential characteristics

$e \geq E_{\max} / 4500$ ;

Excitation power supply 12.3 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.