Nederlands Meetinstituut

Member State
The Netherlands

OIML Certificate N° R76/1992-NL-98.24
Project number 10066939

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 kg ≤ Max ≤ 150 kg
e ≥ 10 g
n ≤ 3000 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 Meetinsituut
Hugo de Grootplein 1
3314 EG Dordrecht
Telephone +31 78 6332332
Telefax +31 78 6332309

Nederlands Meetinstituut

Member State
The Netherlands

OIML Certificate N° R76/1992-NL-98.24
Project number 10066939

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 CIML member
G.J. Faber
i.o.

27 August 1998

*
* *

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

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 $30\ kg \leq Max \leq 150\ kg$ $e \geq 10\ g$
	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 Meetinsituut
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)

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.