NMO

Member State of OIML
United Kingdom of Great Britain
and Northern Ireland

OIML Certificate No
R76/2006-GB1-17.18

OIML CERTIFICATE OF CONFORMITY

Issuing authority: **NMO**

Person responsible: **Mannie Panesar – Head of Technical Services**

Applicant: **CAS Corporation**
#262, Geurugogae-ro
Gwangjeok-myeon
Yangju-si
Gyeonggi-do
Republic of Korea

Manufacturer: **The applicant**

Identification of the certified pattern: **CI-200 Series**

This certificate attests the conformity of the above-mentioned pattern (represented by the samples identified in the associated test report) with the requirements of the following Recommendation of the International Organisation of Legal Metrology (OIML):

OIML R 76 - Edition 2006(E) 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.

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

Important note: Apart from the mention of the certificates 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.

Issue Date: **02 November 2017**

Grégory Glas
Technical Manager
For and on behalf of the Head of Technical Services

UKAS PRODUCT CERTIFICATION
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NMO is part of the Regulatory Delivery directorate within the Department for Business, Energy & Industrial Strategy

The conformity was established by testing and examination described in the associated Evaluation Report P01988 which includes 14 pages.

Characteristics of the instrument:

The instrument is a CI-200 Series, Class III, mains or battery-operated, self-indicating, single or dual-interval, non-automatic weighing instrument. It consists of a CI-200 Series indicator connected to a weighing platform. The CI-200 Series comprises the CI-200A, CI-201A, CI-200S and CI-200SC models.

The instruments are not designed for direct sales to the public.

Main features:

- Plastic (CI-200A and CI-201A) or stainless steel (CI-200S and CI-200SC) enclosure
- LED (CI-200A, CI-200S and CI-200SC) or LCD (CI-201A) display
- LED indicators (CI-200A, CI-200S and CI-200SC)
- LCD indicators (CI-201A)
- Alphanumerical keypad
- Battery indicators (low, charging)

Devices:

- Initial zero setting device on power up
- Semi-automatic zero setting
- Zero tracking (optional)
- Semi-automatic subtractive tare weighing
- Zero-indicator
- Indication of stable equilibrium
- Net indicator
- Gravity compensation
- Printing
- Hold function
- Counting mode (CI-201A)
- Percent mode (CI-201A)
- Totalisation (CI-201A)
- Checkweighing (CI-201A and CI-200SC)

Interfaces:

- Load cell connection
- RS232/485
- USB

Load cell:

Any compatible load cell(s) may be used providing the following conditions are met:

- There is a respective OIML Certificate of Conformity (R60) issued for the load cell.
- The certificate contains the load cell types and the necessary load cell data required for the manufacturer's declaration of compatibility of modules, and any particular installation requirements. A load cell marked NH is allowed only if humidity testing to R76 has been conducted on this load cell.
- The compatibility of the load cells and indicator is established by the manufacturer by means of the compatibility of modules calculation at the time of verification.
- The load cell transmission conforms to a standard type.

Alternatively, the instruments may have the following specifications and designations:

Designation	Platform	Dead load of load receptor	Max (kg)	e = (kg)	Load cell type (CAS)	Load cell E_{max} (kg)	Number of load cells
Indicator: CI-200S							
CK200S-6	SPS(SUS)-6	3	6	0.002	BCLS-10L	10	1
CK200S-15	SPS(SUS)-15	4	15	0.005	BCLS-20L	20	1
CK200S-30	SPS(SUS)-30	4	30	0.01	BCLS-50L	50	1
CK200S-60	SPS(SUS)-60	10	60	0.02	BCLS-100L	100	1
CK200S-150	SPS(SUS)-150	10	150	0.05	BCLS-180L	180	1
Indicator: CI-200SC							
CK200SC-6	SPS(SUS)-6	4	6	0.002	BCLS-10L	10	1
CK200SC-15	SPS(SUS)-15	4	15	0.005	BCLS-20L	20	1
CK200SC-30	SPS(SUS)-30	4	30	0.01	BCLS-50L	50	1
CK200SC-60	SPS(SUS)-60	10	60	0.02	BCLS-100L	100	1
CK200SC-150	SPS(SUS)-150	10	150	0.05	BCLS-180L	180	1

Technical data:

Power supply	12 Vdc via mains adaptor 6 V rechargeable battery
Maximum number of scale intervals	10,000
Load cell excitation voltage	5 Vdc
Minimum load cell impedance	43.75 Ω
Maximum load cell impedance	1000 Ω
Minimum input voltage per verification scale interval	0.5 μV
Measuring range minimum voltage	0 mV
Measuring range maximum voltage	16 mV
Fraction of maximum permissible error	P_{ind} = 0.5
Operating temperature range	- 10 °C to + 40 °C
Load cell cable (from indicator to load cell junction box) - Maximum length	2 m (4-wire configuration) 22 m/mm2 (6-wire configuration)

Software:

The software is held in firmware on the circuit board, and has the identification number “V1.xx” or “V2.xx”, with xx reflecting non-legally relevant changes. The software version number is displayed at power-up.

Download of software is only possible by accessing the main board inside the sealed enclosure.

Access to the legally relevant parameters is prevented by a switch on the main board.

Sealing:

Access to the electronics, access to the switch described in Software section and the load cell connection are sealed using a tamper-evident method

Alternatives manufacturers:

CAS (Zhejiang) Electronics Co., Ltd
99# Changjiang Road
Jiashan County, Zhejiang Province
China

CAS Elektronik San. Tic. A.S.
Yukari Dudulu, Bostanci Cad. Mevdudi Sokak No: 34
Umraniye-Istanbul / Turkey

CAS Deutschland AG
Brackestraße 1
38159 Vechelde
Germany

CERTIFICATE HISTORY

ISSUE NO.	DATE	DESCRIPTION
R76/2006-GB1-17.18	02 November 2017	Certificate first issued.
-	-	No revisions have been issued.