

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

OIML Certificate No
R76/2006-GB1-17.01

OIML CERTIFICATE OF CONFORMITY

Issuing authority: **NMO**
Person responsible: **Max Linnemann – Head of Certification Body**
Applicant: **CAS Corporation
#262, Geurugogae-ro
Gwangjeok-myeon
Yangju-si
Gyeonggi-do
Republic of Korea**
Manufacturer: **The applicant**
Identification of the
certified pattern: **CI-2001 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] and [IIII]

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: **11 January 2017**

A handwritten signature in black ink, appearing to read 'G Stones'.

G Stones
Technical Manager
For and on behalf of the Head of Certification Body

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The conformity was established by testing and examination described in the associated Evaluation Report P01803 which includes 14 pages.

Characteristics of the instrument:

This indicating device, designated the CI-2001, is designed to be used as part of a single range, Class III or IIII, non-automatic weighing instrument. The indicators are self-indicating and mains-powered.

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

Main features:

- Plastic / Stainless Steel enclosure
- LED (CI-2001A) or LCD(CI-2001B) display
- Operator keypad with 6 navigation and function keys
- LED enunciators (CI-2001A)
- LCD enunciators (CI-2001B)

Devices:

- Initial zero setting device on power up ($\leq 20\%$ Max)
- Semi-automatic zero setting ($\leq 4\%$ Max)
- Zero tracking (optional) ($\leq 4\%$ Max)
- Semi-automatic subtractive tare balancing (T = -Max)
- Gross and Net enunciators
- Gross/Net toggle
- Zero enunciator
- Indication of stable equilibrium
- Gravity compensation

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 (with x: A or B):.

Designation (x can be A or B)	Dead load of load receptor	Max (kg)	e = (kg)	Load cell type (CAS)	Load cell E _{max}	Number of load cells
CI-2001x/SPS(SUS)-6	3 kg	6	0.002	BCLS-10L	10	1
CI-2001x/SPS(SUS)-15	3 kg	15	0.005	BCLS-20L	20	1
CI-2001x/SPS(SUS)-30	3 kg	30	0.01	BCLS-30L	30	1

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CI-2001x/SPS(SUS)-60	5 kg	60	0.02	BCLS-60L	60	1
CI-2001x/SPS(SUS)-150	5 kg	150	0.05	BCLS-180L	180	1
CI-2001x/SPS-6	3 kg	6	0.002	BCL-10L	10	1
CI-2001x/SPS-15	3 kg	15	0.005	BCL-20L	20	1
CI-2001x/SPS-30	3 kg	30	0.01	BCL-30L	30	1
CI-2001x/SPS-60	5 kg	60	0.02	BCL-60L	60	1
CI-2001x/SPS-150	5 kg	150	0.05	BCL-180L	180	1
CI-2001x/0.5HFS0808	44 kg	500	0.2	BSA-250	250	4
CI-2001x/0.5HFS1008	54 kg	500	0.2	BSA-250	250	4
CI-2001x/0.5HFS1010	65 kg	500	0.2	BSA-250	250	4
CI-2001x/0.6HFS0808	44 kg	600	0.2	BSA-250	250	4
CI-2001x/1HFS1010	65 kg	1000	0.5	BSA-500	500	4
CI-2001x/1HFS1012	77 kg	1000	0.5	BSA-500	500	4
CI-2001x/1HFS1111	78 kg	1000	0.5	BSA-500	500	4
CI-2001x/1HFS1212	92 kg	1000	0.5	BSA-500	500	4
CI-2001x/1HFS1215	118 kg	1000	0.5	BSA-500	500	4
CI-2001x/2HFS1212	92 kg	2000	1	BSA-1T	1000	4
CI-2001x/2HFS1215	118 kg	2000	1	BSA-1T	1000	4
CI-2001x/2HFS1515	145 kg	2000	1	BSA-1T	1000	4
CI-2001x/3HFS1212	92 kg	3000	1	BSA-2T	2000	4
CI-2001x/3HFS1215	118 kg	3000	1	BSA-2T	2000	4
CI-2001x/3HFS1515	145 kg	3000	1	BSA-2T	2000	4
CI-2001x/3HFS1518	178 kg	3000	1	BSA-2T	2000	4
CI-2001x/3HFS1520	198 kg	3000	1	BSA-2T	2000	4
CI-2001x/5HFS1515	145 kg	5000	2	BSA-2T	2000	4
CI-2001x/5HFS1518	178 kg	5000	2	BSA-2T	2000	4
CI-2001x/5HFS1520	198 kg	5000	2	BSA-2T	2000	4
CI-2001x/0.5UFS1208	38 kg	500	0.2	BSA-250	250	4
CI-2001x/1UFS1208	38 kg	1000	0.5	BSA-500	500	4
CI-2001x/1.5UFS1208	38 kg	1500	0.5	BSA-1T	1000	4
CI-2001x/2UFS1208	38 kg	2000	1	BSA-1T	1000	4
CI-2001x/3UFS1208	38 kg	3000	1	BSA-2T	2000	4
CI-2001x/4UFS1208	38 kg	4000	2	BSA-2T	2000	4
CI-2001x/0.5BFS1212	28 kg	500	0.2	BSA-250	250	4
CI-2001x/1BFS1212	28 kg	1000	0.5	BSA-500	500	4
CI-2001x/2BFS1212	28 kg	2000	1	BSA-1T	1000	4

Technical data:

Power supply	12 VDC via mains adapter	
Maximum number of scale intervals	4,000 (Class III) 1,000 (Class IIII)	5,000 (Class III) 1,000 (Class IIII)
Operating temperature range	- 10 °C to + 40 °C	0 °C to + 40 °C
Maximum Tare value	- Max	
Load cell excitation voltage	5 VDC	
Minimum load cell impedance	87.5 Ω	
Maximum load cell impedance	1100 Ω	
Minimum input voltage per verification scale interval	2 μV	
Measuring range minimum voltage	0 mV	
Measuring range maximum voltage	11 mV	
Fraction of maximum permissible error	P _i = 0.5	
Load cell cable (from indicator to load cell junction box) - Maximum length	3.5 m/mm ² (4- or 6-wire configuration)	

Software:

The software is held in firmware on the circuit board, and has the identification number "V1.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

CERTIFICATE HISTORY

ISSUE NO.	DATE	DESCRIPTION
R76/2006-GB1-17.01	11 January 2017	Certificate first issued.
-	-	No revisions have been issued.