



National  
Measurement &  
Regulation Office



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

OIML Certificate No  
R76/2006-GB1-16.05

## OIML CERTIFICATE OF CONFORMITY

Issuing authority: **National Measurement and Regulation Office**

Person responsible: **Paul Dixon – Director, 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: **WTM 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] or [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: **24 February 2016**

Reference No: **TS1201/0122**

**G Stones**  
**Technical Manager – NMRO Technical Services**



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The conformity was established by testing and examination described in the associated Evaluation Report P01501 which includes 14 pages.

### **Characteristics of the instrument:**

This family of indicating device / weighing module, designated the WTM Series, is designed to be used as part of a single-interval, Class III or IIII, non-automatic weighing instrument. The family comprises the WTM-200 (weighing module) and WTM-500 (indicator) models. The indicators are self-indicating and DC-powered.

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

### Main features:

- Plastic enclosure
- 7 Segment 0.3" LED display (WTM-500)
- 4 operating buttons (WTM-500)
- 6 enunciator LEDs (WTM-500)

When using the WTM-200 weighing module, the instrument shall be connected to a suitable display and operating device (e.g. keypad) allowing the devices below to be fully operational.

### Devices:

- Initial zero setting device on power up
- Semi-automatic zero setting
- Zero tracking (optional)
- Semi-automatic subtractive tare balancing
- Zero-indicator
- Indication of stable equilibrium
- Net indicator
- Gravity compensation
- Printing

### Interfaces:

- Load cell connection (6-wire)
- RS232/485
- Analogue Output
- External I/O
- Ethernet
- Profibus

### 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.

Technical data:

Power supply	9-24 VDC (via any CE-marked mains adaptor)
Maximum number of scale intervals	10,000 (Class III) 1,000 (Class III)
Maximum Tare value	- Max
Load cell excitation voltage	5 VDC
Minimum load cell impedance	40 $\Omega$
Maximum load cell impedance	1100 $\Omega$
Minimum input voltage per verification scale interval	0.36 $\mu$ V
Measuring range minimum voltage	0 mV
Measuring range maximum voltage	16 mV
Fraction of maximum permissible error	$P_i = 0.5$
Operating temperature range	- 10 °C to + 40 °C
Load cell cable (from indicator to load cell junction box) - Maximum length	74 m/mm <sup>2</sup> (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 prevented by a jumper (JP1) on the main board.

Access to the legally relevant parameters is only allowed via a jumper located on the circuit board.

Sealing:

Access to the setup/configuration jumper is prevented by sealing the enclosure via a tamper-evident solution.

The load cell connection is sealed via a tamper-evident solution.

Alternative manufacturer:

Shanghai CAS Electronics Co., Ltd,  
Maixinroad 448, Xinqiaozhen, Songjiangqu,  
Shanghai, China

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

**CERTIFICATE HISTORY**

ISSUE NO.	DATE	DESCRIPTION
R76/2006-GB1-16.05	24 February 2016	Certificate first issued.
-	-	No revisions have been issued.