

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

OIML Certificate No  
R76/2006-GB1-17.13

## 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: **SW 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 R76 - 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: **10 August 2017**



**G Stones**  
**Technical Manager**  
*For and on behalf of the Head of Technical Services*



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The conformity was established by testing and examinations described in the associated Evaluation Report P02162-1 which includes 14 pages.

**Characteristics of the instrument:**

The SW Series is a family of Class III, mains or battery-operated, self-indicating, single or dual-interval, non-automatic weighing instruments. It comprises the ED, SW-1, ER PLUS, ER JR and PW-II models and their variants, using the One-Module V4.

The instrument may be used for direct sales to the public.

**Metrological characteristics**

Model	ED							
Max (kg)	1.5/3	3	3/6	6	6/15	15	15/30	30
Min (g)	10	20	20	40	40	100	100	200
e (g)	0.5/1	1	1/2	2	2/5	5	5/10	10
T ≤ (kg)	-1.4995	-3	-2.999	-6	-5.998	-15	-14.995	-30

Model	SW-1							
Max (kg)	1/2	1.5/3	2.5/5	3/6	4/10	6/15	10/20	15/30
Min (g)	10	10	20	20	40	40	100	100
e (g)	0.5/1	0.5/1	1/2	1/2	2/5	2/5	5/10	5/10
T ≤ (kg)	-0.9995	-1.4995	-2.499	-2.999	-3.998	-5.998	-9.995	-14.995

Model	SW-1							
Max (kg)	2	3	5	6	10	15	20	30
Min (g)	20	20	40	40	100	100	200	200
e (g)	1	1	2	2	5	5	10	10
T ≤ (kg)	-2	-3	-5	-6	-10	-15	-20	-30

Model	ER PLUS					
Max (kg)	3/6	6	6/15	15	15/30	30
Min (g)	20	40	40	100	100	200
e (g)	1/2	2	2/5	5	5/10	10
T ≤ (kg)	-2.999	-6	-5.998	-15	-14.995	-30

Model	ER JR					
Max (kg)	3/6	6	6/15	15	15/30	30
Min (g)	20	40	40	100	100	200
e (g)	1/2	2	2/5	5	5/10	10
T ≤ (kg)	-2.999	-6	-5.998	-15	-14.995	-30

Model	PW-II					
Max (kg)	1/2	2	2.5/5	5	4/10	10
Min (g)	10	20	20	40	40	100
e (g)	0.5/1	1	1/2	2	2/5	5
T ≤ (kg)	-0.9995	-2	-2.449	-5	-3.998	-10

**Construction:**

- Plastic construction
- Steel construction (PW-II Model only)
- Operator's keypad
- Stainless steel load receptor
- Level indicator
- Operator and optional customer displays (may be pole-mounted)

**Devices:**

- Initial zero setting device ( $\leq 20\%$  of Max)
- Automatic zero setting device ( $\leq 4\%$  of Max)
- Semi-automatic zero setting device ( $\leq 4\%$  of Max)
- Zero tracking device ( $\leq 4\%$  of Max)
- Zero indicator
- Net indicator
- Stable weight indicator
- Semi-automatic subtractive tare balancing device
- Printing
- Gravity compensation
- Check weighing
- Hold function for weighing unstable samples
- Processing of non-weighed items
- Price-computing (weighed and non-weighed items)
- Totalisation (when connected to a printer)
- Price Clear and Tare Clear functions
- 3-point calibration
- Piece counting
- Percentage weighing

**Load cell:**

The instrument is fitted with CAS load cell model SW,  $E_{\max} = \text{Max} (+ \text{dead load})$ .

**Rated operating conditions:**

Any compatible CE-marked mains adaptor may be used to supply 12 V DC (ED, ER PLUS, SW-1WR /1LR and ER JR Models) or 9 V DC (PW-II Model and SW-1S PLUS/1C PLUS/1W PLUS) to the instrument.

The instrument may also operate on an integrated rechargeable 6 V 3.6 Ah battery (ED, ER PLUS and ER JR Models), integrated 4 x 1.5 V D type batteries (ER JR Model), integrated 6 x 1.5 V D type batteries (SW-1S PLUS/1C PLUS/1W PLUS Model), integrated rechargeable 6 V 1.3 Ah battery (SW-1LR Model), integrated rechargeable 6 V 3.3 Ah battery (SW-1WR Model), or integrated 6 x 1.5 V AA batteries (PW-II Model).

The temperature range for the instruments is  $-10\text{ }^{\circ}\text{C} / +40\text{ }^{\circ}\text{C}$ .

**Software:**

The software identification shall be V4.xx.x, with xx.x reflecting non-legally relevant changes. This information is displayed at power up.

Access to the legally relevant parameters and download of software via the RS232 communication port is only possible by accessing the calibration switch on the main board. Access to this calibration switch is prevented by sealing the enclosure (Sealing section).

**Model variants and designation:**

Model	Type	Display	Variant designation	Option	Remarks
ED	Standard	LCD	ED	RS232	
SW-1	Standard	LCD	SW-1S PLUS	RS232 Rear display	Check weighing and counting modes
			SW-1C PLUS		Waterproof
			SW-1W PLUS		Waterproof, rechargeable battery
		LED	SW-1WR		Rechargeable battery
			SW-1LR		
ER PLUS	B type	LCD	ER PLUS-C	RS232	Front and rear integral displays.
	P type		ER PLUS-CB		Backlight
			ER PLUS-CP		Pole-mounted front and rear integral displays.
			ER PLUS-CBP		Backlight
			ER PLUS-MCP		Direct PLU keypad
			ER PLUS-MCBP		Direct PLU keypad, with backlight
	U type	ER PLUS-CU	U type has front integral and pole-mounted displays.		
		ER PLUS-CBU	Backlight		
	B type	LED	ER PLUS-E		
	P type		ER PLUS-EP		
	U type		ER PLUS-MEP		Direct PLU keypad
			ER PLUS-EU		
	ER JR	B type	LCD		ER JR-C
ER JR-CB				Backlight	
P type		ER JR-CP			
		ER JR-CBP		Backlight	
		U type		ER JR-CU	
ER JR-CBU	Backlight				
PW-II	Standard	LCD	PW-II	RS232	

**Interfaces**

The instrument may have the following interface types:

- RS232

The instruments may be connected to an Electronic Point of Sale (EPOS), Electronic Cash Register (ECR) or Electronic Fund Transfer (EFT/ECU).

**Sealing:**

Access to the electronics, load cell and calibration switch is prevented by sealing the enclosure using a tamper-evident method.

**Alternative 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 Vechede  
Germany

**CERTIFICATE HISTORY**

<b>ISSUE NO.</b>	<b>DATE</b>	<b>DESCRIPTION</b>
R76/2006-GB1-17.13	10 August 2017	Certificate first issued.
-	-	No revisions have been issued.