

	
<b>OIML Member State</b> United Kingdom of Great Britain and Northern Ireland	<b>OIML Certificate No.</b> <b>R76/2006-A-GB1-20.02</b>
<b>OIML CERTIFICATE ISSUED UNDER SCHEME A</b>	
OIML Issuing Authority <b>NMO</b> <b>Stanton Avenue</b> <b>Teddington</b> <b>TW11 0JZ</b> <b>United Kingdom</b>  Person responsible: <b>Mannie Panesar – Head of Technical Services</b>	
Applicant <b>Xiamen Balance Electronic Technology Co., Ltd.</b> <b>Room 1001-1, No.15-16, Tongan Industrial Park</b> <b>Meixi Road, Tongan District</b> <b>Xiamen</b> <b>PR China</b>	
Manufacturer <b>The applicant</b>	
Identification of the certified type <b>W23 and C Series (C01, C02 and C03 models)</b> <i>(the detailed characteristics are defined in the Descriptive Annex)</i>	
<p>This OIML Certificate attests the conformity of the above identified type (represented by the sample(s) identified in the OIML type evaluation report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):</p> <p><b>OIML R 76-1, Edition: 2006</b></p> <p>For accuracy class: III</p>	
Issue date: 09 March 2020  <b>The OIML Issuing Authority</b>    <b>Grégory Glas</b> <b>Lead Technical Manager</b> <i>For and on behalf of the Head of Technical Services</i>	

This OIML Certificate relates only to metrological and technical characteristics of the type of measuring instrument covered by the relevant OIML Recommendation identified above.

This OIML Certificate does not bestow any form of legal international approval.

The conformity was established by the results of tests and examinations provided in the associated OIML type evaluation report:

No. P02688 dated 09 March 2020 that includes 16 pages.

The technical documentation relating to the identified type is contained in documentation file:

No. P02688-D dated 09 March 2020.

#### **OIML Certificate History**

<b>Revision No.</b>	<b>Date</b>	<b>Description of the modification</b>
0	09 March 2020	OIML Certificate first issued.
-	-	-

No revisions have been issued.

*Important note:*

*Apart from the mention of the Certificate's reference number and the name of the OIML Member State in which the Certificate is issued, partial quotation of the Certificate and of the associated OIML type evaluation report(s) is not permitted, although either may be reproduced in full.*

## DESCRIPTIVE ANNEX

### Characteristics of the instrument:

The W23 and C Series comprises the weighing module (A/D board) of a BPS indicator and a main PCB connected to a range of load cells to form a family of Class III, I/O line powered or battery-operated, self-indicating, dual-interval, non-automatic weighing instruments.

The instrument is intended to be used for direct sales to the public when connected to a Point of Sale device.

### Model variants and designation:

Model	Display	Keyboard	I/Os	Options	Remarks
W23	LCD	None	RS232	USB	No keys
C01	LCD	4 keys	RS232	USB	4 keys: Light, Function, Zero and Tare.
C02	LCD	4 keys	RS232	USB	
C03	LCD	4 keys	RS232	USB	

### Main features:

- Alloy metal construction
- Stainless steel load receptor
- Integral LCD display
- No operator keypad for W23 model
- Operator keypad with 4 keys for C models
- LCD/LED enunciators (STABLE, ZERO and NET)
- Level indicator
- Adjustable feet

### Devices:

- Initial zero setting device ( $\leq 20\%$  of Max)
- Semi-automatic zero setting device ( $\leq 4\%$  of Max) for C models
- Zero tracking (optional) ( $\leq 4\%$  Max)
- Stable weight indicator
- Semi-automatic additive or subtractive tare balancing ( $T = \pm \text{Max}_1$ )
- Tare indicating
- Gravity compensation

### 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 be fitted with one of the following ZEMIC load cell, model L6D:

Max (kg)	15/30
Min (g)	100
e = (g)	5/10
T = - (kg)	14.995
Load cell E <sub>max</sub> (kg)	40

Technical data:

The technical data for the weighing module (A/D board) is as follows:

Power supply	100 V – 230 Vac, 50/60 Hz I/O line (USB) 5 VDC 5 V, 4.0 Ah battery (chargeable during operation)
Maximum number of scale intervals	6 000
Operating temperature range	- 10 °C to + 40 °C
Maximum Tare value	± ½ Max for single interval ± Max <sub>1</sub> for dual interval
Load cell excitation voltage	5 VDC
Load cell impedance	350 Ω
Minimum input voltage per verification scale interval	1.5 μV
Measuring range minimum voltage	0 mV
Measuring range maximum voltage	19.5 mV
Fraction of maximum permissible error	P <sub>i</sub> = 0.5
Load cell cable (from indicator to load cell junction box) - Maximum length	0.45 m/mm <sup>2</sup> (4-wire configuration)

Software:

The software is held in firmware on the circuit board, and has the identification number V02.xx, with xx reflecting non-legally relevant changes. The software version number is displayed at power-up.

Access to the legally relevant parameters and download of software is only possible via the calibration switch on the main board. This is prevented by sealing the enclosure.

Interfaces:

- RS232
- USB (optional)

Peripheral devices

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 – wire and seal solution.

Alternatives:

There are currently no authorised alternatives.