

OIML Member State United Kingdom of Great Britain and Northern Ireland	OIML Certificate No. R76/2006-A-GB1-18.02 Revision 1
OIML CERTIFICATE ISSUED UNDER SCHEME A	
OIML Issuing Authority	NMO Stanton Avenue Teddington TW11 0JZ United Kingdom
Person responsible:	Mannie Panesar – Head of Technical Services
Applicant	Xiamen Balance Electronic Technology Co., Ltd. Room 1001-1, No.15-16, Tongan Industrial Park Meixi Road, Tongan District Xiamen PR China
Manufacturer	The applicant
Identification of the certified type	B Series (BPS, BRS and BLS models) <i>(the 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>OIML R 76-1, Edition: 2006</p> <p>For accuracy class: III</p>	
<p>The OIML Issuing Authority</p> <p>Issue date: 24 January 2019</p>  <p>G Stones Technical Manager <i>For and on behalf of the Head of Technical Services</i></p>	

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. P02123 dated 02 March 2018 that includes 16 pages

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

No. P02123-D dated 02 March 2018

OIML Certificate History

Revision No.	Date	Description of the modification
Revision 0	02 March 2018	Certificate first issued.
Revision 1	24 January 2019	Correction to description of characteristics, and addition of Technical data, for the instrument.

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 B Series comprises a BPS indicator (model) connected to a range of load cells to form a family of Class III, mains or battery-operated, self-indicating, single or dual-interval, non-automatic weighing instruments. The BPS indicator may be designated as the BPS and their variants, BRS and BLS models depending upon the construction.

Max	≤	30 kg
Min	≥	40 g
e	≥	2 g
n	≤	6000 (for single-interval)
ni	≤	3000 (for dual-interval)

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

Model variants and designation:

Model	Display	Variant designation	Options	Remarks
BPS	LCD or LED	BPS-A, BPS-A3 BPS-B, BPS-B3 BPS-X, BPS-X3	RS232	Integral front and rear displays.
		BPS-A1, BPS-A4 BPS-B1, BPS-B4 BPS-X1, BPS-X4	RS232	Integral front display and pole-mounted rear display.
		BPS-A2, BPS-A5 BPS-B2, BPS-B5 BPS-X2, BPS-X5	RS232	Pole-mounted front and rear displays.
BRS	LCD	----	RS232 USB Ethernet	Pole-mounted front and rear displays. Integral printer.
BLS	LCD	----	RS232 USB Ethernet	Pole-mounted front and rear displays. Integral printer.

Construction:

- Plastic enclosure
- Plastic / Stainless Steel load receptor
- Dual, integral or pole-mounted, LCD/LED display
- Operator keypad
- Integral printer (optional)
- Level indicator

Devices:

- Initial zero setting device (≤ 20% of Max)
- Semi-automatic zero setting device (≤ 4% of Max)
- Zero tracking (optional) (≤ 4% Max)
- Zero indicator

- Stable weight indicator
- Semi-automatic additive or subtractive tare weighing ($T = \pm \frac{1}{2} \text{ Max}$ for single interval, or $\pm \text{Max}_1$ for dual interval)
- Tare indicating
- Preset tare
- Gravity compensation
- Printing (optional)
- Price-computing (weighed and non-weighed items)
- Price Look Up (PLU)
- Price-labelling configuration, in which case printing below Min is not allowed
- Memory storage (transactions)

Technical data (indicator):

Power supply	100 V – 230 Vac, 50/60 Hz 5 V, 3.6 Ah battery (chargeable during operation)
Maximum number of scale intervals	6 000
Operating temperature range	- 10 °C to + 40 °C
Maximum Tare value	$\pm \frac{1}{2} \text{ Max}$ for single interval $\pm \text{Max}_1$ 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	$p_i = 0.5$
Load cell cable (from indicator to load cell junction box) - Maximum length	0.45 m/mm ² (4-wire configuration)

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 cells, model L6D:

Max (kg)	6	6/15	15	15/30	30
Min (g)	40	40	100	100	200
e = (g)	2	2/5	5	5/10	10
T = - (kg)	3	5.998	7.5	14.995	15
Load cell E _{max} (kg)	12	25	25	40	40

Software:

The software is held in firmware on the circuit board, and has the identification number V02.xx.xx, with xx.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.

Interfaces

The instrument may have the following interface types:

- USB
- Ethernet
- 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 – wire and seal solution.

Alternatives:

There are currently no authorised alternatives.