



Member State of OIML United Kingdom of Great Britain and Northern Ireland OIML Certificate № R76/2006-GB1-15.01

OIML CERTIFICATE OF CONFORMITY

Issuing authority:	National Measurement Office		
Person responsible:	Paul Dixon – Director, Product Certification		
Applicant:	Balanças Marques de José Pimenta Marques, Lda Parque Industrial de Celeirós (2ª Fase) Apart. 2376 4701-905 Braga Portugal		
Manufacturer:	The applicant		
Identification of the	BM1-S11-15, BM1-S11-30, BM1-S12-15, BM1-S12-30,		
certified pattern:	BM1- S21-15, BM1-S21-30, BM1-S22-15 and BM1-S22-30 Price Computing Scales.		

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]

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.

The conformity was established by tests described in the associated pattern evaluation report P01203 which includes 13 pages

Issue Date: Reference No:

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Signatory: G Stones for Chief Executive National Measurement Office | Stanton Avenue | Teddington | TW11 0JZ | United Kingdom Tel +44 (0)20 8943 7272 | Fax +44 (0)20 8943 7270 | Web www.gov.uk/nmo

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National Measurement Office

Characteristics of the instrument:

Description:

The Balanças Marques de José Pimenta Marques, Lda BM1-S series of weighing instruments are Non-Automatic Weighing Instrument which are mains or battery powered, Class III, price-computing, stand-alone instrument intended for direct sales to the public. Maximum capacities are between 15 kg and 30 kg.

Metrological characteristics:

Model	Мах	Min (20 e)	е	Divisions
BM1-S11-15	6/15 kg	40 g	2/5 g	3 000
BM1-S11-30	15/30 kg	100 g	5/10 g	3 000
BM1-S12-15	6/15 kg	40 g	2/5 g	3 000
BM1-S12-30	15/30 kg	100 g	5/10 g	3 000
BM1-S21-15	6/15 kg	40 g	2/5 g	3 000
BM1-S21-30	15/30 kg	100 g	5/10 g	3 000
BM1-S22-15	6/15 kg	40 g	2/5 g	3 000
BM1-S22-30	15/30 kg	100 g	5/10 g	3 000

Main features:

- Environmentally protected against dust, water and insects.
- LCD and LED displays available.
- High speed thermal printer.
- Die-cast chassis and plastic housing that contains the load cell and electronics.
- Stainless steel load receptor.
- Level indicator

Devices:

- Initial zero-setting
- Semi-automatic zero-setting
- Automatic zero-setting
- Zero-tracking
- Zero and tare indicator
- Net indicator
- Semi-automatic subtractive tare balancing/weighing
- Preset tare
- Price computing
- Price-labelling configuration, in which case printing below Min is not allowed

Interfaces:

- Power interface
- DB9 serial port
- RJ11 cashier box interface
- RJ45 Ethernet (wired or R.F. connectivity)
- USB interface

Load cell:

The scales approved under this certificate may use the following load cells:

Scale Model	Load Cell Models	Manufacturer	Max Capacity (kg)	E _{max} (kg)
BM1-S11-15	L6D-C3-20 kg-0.4B	ZEMIC	20	30
BM1-S11-30	L6D-C3-40 kg-0.4B	ZEMIC	40	60
BM1-S12-15	L6D-C3-20 kg-0.4B	ZEMIC	20	30
BM1-S12-30	L6D-C3-40 kg-0.4B	ZEMIC	40	60
BM1-S21-15	L6D-C3-20 kg-0.4B	ZEMIC	20	30
BM1-S21-30	L6D-C3-40 kg-0.4B	ZEMIC	40	60
BM1-S22-15	L6D-C3-20 kg-0.4B	ZEMIC	20	30
BM1-S22-30	L6D-C3-40 kg-0.4B	ZEMIC	40	60

Note:ZEMIC: Zhonghang Electronic Measuring Instruments Co., Ltd.

Power supply

The instrument is mains-powered, 110 / 240 AC V, 50 / 60Hz. There are two options for when the instrument is being powered from a DC source;

- 12 V 5 Ah rechargeable lead acid battery
- 11.1 V 4.4 Ah rechargeable Lithium Battery

The instruments are fitted with a battery indicator, and an audible warning will sound when DC voltage drops to a minimum.

Software:

The software is held in firmware on the circuit board, and has the following identification version number used for verification purposes;

- 410.1XX.XXX.XXX 4.10.122.000.102 (current version number)

with XX.XXX.XXX reflecting non-legally relevant modifications, and is displayed on the function menu. Access to the setup/configuration mode is only allowed by operating a key on the keyboard and input the correct password. Access to the calibration mode is only allowed by operating a switch on the circuit board. Access to the switch should be secured and sealed by using a lead sealing.

Sealing:

The instrument is sealed by placing a tamper evident over the screws in the base prevents opening of the housing. Access to the test pin that allows calibration is prevented by a small plate having a seal over one of its fixing screws.

Certificate History

lssue №	Date	Description
R76/2006-GB1-15.01	13 January 2015	Certificate first issued
		No revisions have been issued.