NMO

OIML CERTIFICATE OF CONFORMITY

Issuing authority:	**NMO**
Person responsible:	**Max Linnemann – Head of Certification Body**
Applicant:	**Sartorius Lab Instruments GmbH & Co KG** **37070 Goettingen** **Germany**
Manufacturer:	**The applicant**
Identification of the certified pattern:	**PMA**

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**: [II] and [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: **8 December 2016**
Reference No: **TS1201/0175**

Marek Bokota
Technical Manager
For and on behalf of the Head of Certification Body

UKAS
PRODUCT
CERTIFICATION

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The conformity was established by testing and examination described in the associated Evaluation Report P01939 which includes 26 pages.

Characteristics of the instrument:

Characteristics:

The Sartorius PMA is a family of self-indicating, single-interval, non-automatic weighing instruments designed to be used in paint mixing applications. The family comprises of the PMA-EV (Class II) and the PMA-HD (Class III) types, each of which comprises several models.

The instrument shall not be used for direct sales to the public.

Variants:
PMA-EV

EVO1 ABC
VIS1 ABC

PMA-HD

LAB1 ABC
SPO1 ABC

Where A = S, X, or Y, denoting operation in: standard environments, Ex-zone 1 explosive environments, or Ex-zone 2 explosive environments respectively.

For A =S and EVO1Y models, B = 1 and for all other models B = 1, 2, 3, or 4 depending on supplied RJ-45 cable lengths of: no cable, 10m, 20m, or 30m respectively.

C is a placeholder for commercial name affixes.

Main features:

- Plastic construction
- Stainless steel load receptor
- Plastic display head
- 3 feet, 2 adjustable
- Level indicator
- LCD Segment display with fixed position touch keys (EVO1, LAB1, SPO1)
- LCD Graphic display with touch function (VIS1)
- EX-link converter for voltage supply and data transfer (X and Y models except for EVO1Y)

Devices:

- Initial zero setting device (≤ 20% of Max)
- Zero tracking device (≤ 4% of Max)
- Zero indicator (PMA-HD only)
- Combined zero-setting and tare-balancing device
- Preset tare device (only via a PC)
- Approximate displaying device (PMA-EV only)
- Weight accumulation
- Weight Calculating

Note: A PC with compatible paint mixing software can be connected to the instruments by the interfaces provided. All devices can be initiated via a PC; preset-tare can only be introduced via a PC.

Interfaces:

- USB either directly (S models and EVO1Y) or via Ex-Link converter (EVO1X and LAB1X)
- Ethernet via Ex-link converter (VIS1X and VIS1Y models)

Load Cell:

The instrument is fitted with one strain gauge load cell as per technical data, manufactured by Bizerba.

Technical Data:

The instrument operates on a 5 V DC power supply provided by USB. For X and Y models except EVO1Y, power is delivered from USB to Ex-link converter, and then to the instrument via RJ-45.

Model	PMA-EV	PMA-HD
Class	II	III
Max	7500 g	2200 g
Min	20 g	20 g
e =	1 g	1 g
d =	0.1 g	1 g
T ≤	- Max	
Temperature Range	+10 to +30 ^{o}C	+10 to +40 ^{o}C
Load Cell	Bizerba WS8	Bizerba WS3
E_{max}	8 kg	3 kg

Software:

The following software versions are permitted:

	Software ID	Software Version number
Weighing instrument software BAC	05496 1578 (VIS models)	00-56-02.xx

	Software ID	Software Version number
Software applications APC (only VIS models)	6587	01-72-03.xx

where xx reflects legally non-relevant changes. For VIS1 models, the software information is displayed by navigating to Menu > Settings > Device information. For all other models, the software information is displayed by holding 'OK' for 2 seconds then navigating to INFO > Ver.no.

Access to the legally relevant parameters and download of software is only possible by accessing the *Menu access switch.*

Sealing:

Access to the electronics and load cell is prevented by two tamper evident labels on the underside of the instrument; and access to the *Menu access switch* is prevented by a tamper evident label covering the switch.

CERTIFICATE HISTORY

ISSUE NO.	DATE	DESCRIPTION
R76/2006-GB1-16.13	8 December 2016	Certificate first issued.
-	-	No revisions have been issued.