

	
OIML Member State United Kingdom of Great Britain and Northern Ireland	OIML Certificate No. R76/2006-A-GB1-18.03
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 Sartorius Lab Instruments GmbH & Co KG 37070 Goettingen Germany	
Manufacturer The applicant	
Identification of the certified type PMA Series (EVO, VIS, SPO, LAB) Types PMA-EV and PMA-HD	
<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, Edition: 2006</p> <p>For accuracy class: II and III</p>	
<p>Issue date: 11 May 2018</p> <p>The OIML Issuing Authority</p> <p></p> <p>M Bokota Technical Manager <i>For and on behalf of the Head of Technical Services</i></p> <div style="text-align: right;">  0135 </div>	

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. P02276 dated 11 May 2018 that includes 30 pages

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

No.P02276-D dated 11 May 2018

OIML Certificate History

Revision No.	Date	Description of the modification
Revision 0	11/05/2018	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 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.

Model variants and designation:

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.

Construction:

- 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 ($\leq 20\%$ of Max)
- Zero tracking device ($\leq 4\%$ 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	5 g	20 g
e =	1 g	1 g
d =	0.1 g	1 g
T ≤	- Max	
Temperature Range	+10 to +30 °C	+10 to +40 °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 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.