

Translation

# EU-Type Examination Certificate Supplement 1

Equipment intended for use in potentially explosive atmospheres  
Directive 2014/34/EU

EU-Type Examination Certificate Number: **BVS 20 ATEX E 025 X**

Product: **Portable density meter type DMA 35 V4 Ex and DMA 35 V4 Ex Petrol**

Manufacturer: **Anton Paar GmbH**

Address: **Anton-Paar-Straße 20, 8054 Graz, Austria**

This supplementary certificate extends EU-Type Examination Certificate No. BVS 20 ATEX E 025 X to apply to products designed and constructed in accordance with the specification set out in the appendix of the said certificate but having any acceptable variations specified in the appendix to this certificate and the documents referred to therein.

DEKRA Testing and Certification GmbH, Notified Body number 0158, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential Report No. BVS PP 20.2054 EU.

The Essential Health and Safety Requirements are assured in consideration of:

**EN IEC 60079-0:2018**  
**EN 60079-11:2012**

**General requirements**  
**Intrinsic Safety "i"**

If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Special Conditions for Use specified in the appendix to this certificate.

This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

The marking of the product shall include the following:

 **II 2G Ex ib IIB T4 Gb**

DEKRA Testing and Certification GmbH  
Bochum, 2020-10-05

Signed: Jörg-Timm Kilisch

Managing Director

13 **Appendix**

14 **EU-Type Examination Certificate**

**BVS 20 ATEX E 025 X  
Supplement 1**

15 **Product description**

15.1 **Subject and type**

Portable Density Meter type DMA 35 V4 Ex and DMA 35 V4 Ex Petrol

15.2 **Description**

**Reasons for the supplement:**

- Change from IIC to IIB
- Replacing of some diodes or changing of the diodes parameters
- Approval of additional accessories
- Changing of the front glass panel
- Updating the documentation

**Description of the product**

The Portable Density Meter type DMA 35 V4 Ex and DMA 35 V4 Ex Petrol is a battery powered instrument for determination of density, specific gravity and concentration of liquids. The type DMA 35 V4 Ex and DMA 35 V4 Ex Petrol differ in the housing material.

The Portable Density Meter was designed for use in laboratory and process environments and is connected via a manually operated piston pump.

The portable density meters can only be used with the listed accessories:

Part No	Description
177115	Rubber housing operating panel DMA 35
92477	Spare wristband for portable instruments
210247	Carrying Case DMA 35 Ex / Ex Petrol
172214	Filling Tube 180 mm
178843	Filling Tube 600 mm
227592	Bent Filling Tube 70 mm / 180 mm
172246	Closure tray PVDF DMA 35 V4
172211	Adapter Luer 1/4" UNF DMA 35 V4
58802	Syringes 2 mL Luer
194159	Rubber housing measuring cell DMA 35 V4
58264	Allen Key 3 mm
170085	Pump Lever without lock function
165216	Pump Lever with lock function
180402	O-Ring 4x2 Viton
234560	Carrying strap set DMA 35 Version 4 EX

The communication of the Portable Density Meter with external systems can be done via the integrated RFID and Bluetooth interfaces for quick sample identification.

**Listing of all components used referring to older standards**

None

**15.3 Parameters**

Power supply	3 primary cells each 1.5 V, type Varta Industrial 4006
Nominal voltage	DC 4.5 V
RFID-Interface	max. 265 mW, 125 kHz
Bluetooth interface	max. 10 dBm
Ambient temperature range	-10 °C ≤ T <sub>a</sub> ≤ 40 °C
Media temperature	max. 100 °C

**16 Report Number**

BVS PP 20.2054 EU, 2020-10-05

**17 Special Conditions for Use**

- 17.1 The battery can only be changed outside the hazardous environment.
- 17.2 Only accessories listed in the manufacturer's instructions can be used with the Portable Density Meters.

**18 Essential Health and Safety Requirements**

The Essential Health and Safety Requirements are covered by the standards listed under item 9.

**19 Drawings and Documents**

Drawings and documents are listed in the confidential report.

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We confirm the correctness of the translation from the German original.  
In the case of arbitration only the German wording shall be valid and binding.

DEKRA Testing and Certification GmbH  
Bochum, 2020-10-05  
BVS-Hil A20200581

  
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Managing Director