



(1) **EU-TYPE-EXAMINATION CERTIFICATE**
(Translation)

(2) Equipment or Protective Systems Intended for Use in
Potentially Explosive Atmospheres - **Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number:

PTB 18 ATEX 2004

Issue: 1

(4) Product: Portable Density Meter, type DMA35v4 EX and DMA35v4 EX Petrol

(5) Manufacturer: Anton Paar GmbH

(6) Address: Anton-Paar-Straße 20, 8054 Graz, Austria

(7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 in accordance with Article 17 of the 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 Test Report PTB Ex 20-20101.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012 + A11:2013 EN 60079-11:2012

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

(12) The marking of the product shall include the following:

 **II 2 G Ex ib IIB T4**

Konformitätsbewertungsstelle, Sektor Explosionsschutz

Braunschweig, August 7, 2020

On behalf of PTB:


Dr.-Ing. M. Beyer
Direktor und Professor



(13)

SCHEDULE

(14) **EU-Type Examination Certificate Number PTB 18 ATEX 2004, Issue: 1**

(15) Description of Product

The portable density meter, type DMA35v4 EX or type DMA35v4 EX Petrol is a battery-operated measuring instrument for measuring the density of liquid media. The type DMA35v4 EX and the type DMA35v4 EX Petrol differ in their case material.

The density meter is designed for use in laboratory and process environments and provides a hand-operated piston pump. Only the associated accessories (carrying strap, injector, sampling tube) shall be used for the density meter.

The density meter can communicate with external systems via the RFID and Bluetooth modules in the device.

The permissible ambient temperature range is: -10°C up to $+40^{\circ}\text{C}$

Changes with respect to previous editions

- Change of the permitted gas group from IIC to IIB with the same test specification and no technical changes
- Adaptation of the marking, the instruction manual and the Ex-sticker with regard to the modified gas group
- Introduction of a safety-related description regarding the used TVS-diode

Electrical data

Internal supply	4,5V (DC); battery type approved for power supply: VARTA Industrial type 4006 Changing of the battery and the charging cradle is only permitted outside the hazardous area.
RFID-interface	max. 265mW, 125kHz
Bluetooth-interface	max. 10dBm TX power
Medium temperature	max. 100°C

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EU-Type Examination Certificates without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by the Physikalisch-Technische Bundesanstalt. In case of dispute, the German text shall prevail.

SCHEDULE TO EU-TYPE EXAMINATION CERTIFICATE PTB 18 ATEX 2004, Issue: 1

- (16) Test Report PTB Ex 20-20101
- (17) Specific conditions of use
none
- (18) Essential health and safety requirements
Met by compliance with the aforementioned standards.

Konformitätsbewertungsstelle, Sektor Explosionsschutz
On behalf of PTB

Braunschweig, August 7, 2020


Dr.-Ing. M. Beyer
Direktor und Professor

