



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx BVS 20.0018X	Page 1 of 5	<u>Certificate history:</u>
Status:	Current	Issue No: 1	Issue 0 (2020-06-09)
Date of Issue:	2020-11-24		
Applicant:	Anton Paar GmbH Anton-Paar-Strasse 20 Graz, 8054 Austria		
Equipment:	Portable Density Meter type DMA 35 V4 Ex and DMA 35 V4 Ex Petrol		
Optional accessory:			
Type of Protection:	Intrinsic Safety "i"		
Marking:	Ex ib IIB T4 Gb		

Approved for issue on behalf of the IECEx
Certification Body:

Dr Franz Eickhoff

Position:

Lead Auditor and officially recognised expert

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

DEKRA Testing and Certification GmbH
Certification Body
Dinnendahlstrasse 9
44809 Bochum
Germany

 **DEKRA**
On the safe side.



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Manufacturer: **Anton Paar GmbH**
Anton-Paar-Strasse 20
Graz, 8054
Austria

Manufacturing
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[DE/BVS/ExTR20.0029/01](#)

Quality Assessment Report:

[DE/TPS/QAR14.0002/04](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Subject and Type

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

Description of 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

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	$-10\text{ °C} \leq T_a \leq 40\text{ °C}$
Media temperature	max. 100 °C



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SPECIFIC CONDITIONS OF USE: YES as shown below:

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



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- Replacing of some diodes or changing of the diodes parameters
- Approval of additional accessories
- Changing of the front glass pane
- Updating the documentation