



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx FME 14.0004X

Issue No: 2

Certificate history:

[Issue No. 2 \(2017-05-12\)](#)

Status: **Current**

[Issue No. 1 \(2015-10-30\)](#)

Date of Issue: **2017-05-12**

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[Issue No. 0 \(2014-09-26\)](#)

Applicant: **Anton Paar**  
Anton Paar Strasse 20  
Graz A-8054  
**Austria**

Equipment: **135165, L-Vis 520 Ex Smart Sensor, Inline Viscometer**

*Optional accessory:*

Type of Protection: **Flameproof 'd'**

Marking:

Ex db IIB T6 (Max. Medium Temperature Tm=195°C) Gb IP65

*Approved for issue on behalf of the IECEx  
Certification Body:*

Mick Gower

*Position:*

Certification Manager

*Signature:  
(for printed version)*

*Date:*

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 the [Official IECEx Website](#).

Certificate issued by:

**FM Approvals Ltd**  
**1 Windsor Dials**  
**SL4 1RS Windsor**  
**United Kingdom**





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Manufacturer: **Anton Paar**  
Anton Paar Strasse 20  
Graz A-8054  
**Austria**

Additional Manufacturing location(s):

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 electrical apparatus 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 : 2011** Explosive atmospheres - Part 0: General requirements  
Edition:6.0

**IEC 60079-1 : 2014-06** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

*This Certificate **does not** indicate compliance with electrical 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:

[GB/FME/ExTR14.0006/00](#)

[GB/FME/ExTR14.0006/01](#)

[GB/FME/ExTR14.0006/02](#)

### Quality Assessment Report:

[DE/TPS/QAR14.0002/00](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

L-Vis 520 is a flameproof inline viscometer from Anton Paar which can be immersed directly in the production liquid.

It continuously displays the viscosity at the process temperature and reference temperature allowing 24-hour monitoring of suspensions, lubricants, starch and many more process liquids.

The process liquid flows through the sensor. The viscosity and temperature are measured simultaneously and both are displayed on the screen. Viscosity is determined in the range from 1 to 50,000 mPa.s.

The major components providing the flameproof protection are the motor housing and the terminal housing.

The ambient operating temperature range of the L-Vis 520 is -20°C to 40°C for process temperature of 195°C.

The maximum input pressure of the liquid is 25 bar and the L-Vis 520 electrical ratings are up to 30 volts dc, 113 watts maximum.

### SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Refer to the manufacturer for the flamepath dimensions.
2. The cable glands shall be suitably certified with minimum rating of IP65.



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## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Minor drawing changes, no impact on protection concept.

A review of the significant changes between IEC 60079-1 (Ed. 6.0) and IEC 60079-1 (Ed. 7.0) determined that no testing was required to qualify the equipment to the requirements of IEC 60079-1 (Ed. 7.0): 2014. Changes to the standard are editorial in nature or not applicable to the equipment. Major technical changes are either satisfied or not applicable. Revised markings to include the required "db" markings.