



Translation



Certificate - Certificate

(1) 2. supplement to EU type examination certificate

in accordance with Directive 2014/34/EU Annex III, point 7



(2) Equipment and protective systems intended for use in potentially explosive atmospheres - **Directive 2014/34/EU**

(3) 2. supplement to EU-type examination certificate no. TÜV-A 12ATEX0001X / 02

(4) Product **V3 Ex spectrometer probe**

(5) Manufacturer: Badger Meter Austria GmbH

(6) Address: 1030 Vienna, Haidingergasse 1/3.OG

(7) This 2nd supplement extends EU Type Examination Certificate No. TÜV-A 12ATEX0001X to apply to products designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

(8) TÜV AUSTRIA GMBH, Notified Body number 0408 in accordance with Article 17 and Article 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that the product, as modified by this supplement certificate, 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 confidential Report No TUV-A 2024-000195.

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

EN IEC 60079-0:2018 EN 60079-1:2014 EN 60079-28:2015

except in respect of those requirements listed in point 18 of the Schedule.

(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 item 17 of the Schedule to this certificate.

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

 **II 2 G Ex db op is IIC T6 Gb**

0°C ≤ T_{amb} ≤ 45°C

Vienna
Place

16.07.2025
Date


Dipl.-Ing. Dr Kurt Bruckner
Notified Body 0408
TÜV AUSTRIA GMBH



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Rev. 08

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(13)

Schedule

(14)

2. supplement to EU-type examination certificate TÜV-A 12ATEX0001X

(15) **Description of the product**

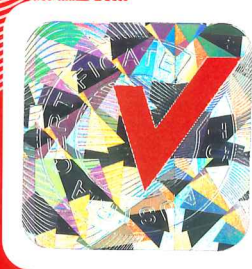
The following changes and additions have been made:

- Change of company data:

As of 01/01/2025, the company data was changed according to the following table:

Previous company data:	Company data as of 01/01/2025:
scan Messtechnik Ges.m.b.H. Brigittagasse 22-24 1200 Vienna	Badger Meter Austria GmbH Haidingergasse 1/3.OG 1030 Vienna

- Modification of the internal electronics with regard to evaluation of the measurement data (no influence on explosion protection).
- Evaluation of the optical radiation of the measuring lamp and Extension of the labelling.
- The geometric design of the measuring probe was adapted and slightly modified, in particular with regard to the type and dimensions of the optical measuring path. No significant changes were made to the principle of explosion protection in the type of protection "Flameproof enclosure - Ex db", the gaps were slightly adapted to the changed geometries, for this reason the explosion tests according to EN 60079-1:2014, section 15.2 (tests of ability of the enclosure to withstand pressure, reference pressure) and section 15.3 (test for non-transmission of an internal ignition) were also carried out again. The product passes the pressure test with 4 times the reference pressure, therefore in accordance with EN 60079-1:2014, section 15.2.3.2, no special routine test for ability of the enclosure to withstand pressure is required during series production. Irrespective of this, extensive leakage tests are carried out by the manufacturer during production.
Note: The device is intended for use in water ("submerged").



Type designation:

The new device version is labelled "V3" or "SP3",
This designation can also be found in the type code:

Abbreviation: Spectrometer probe / spectro::lyser V3

Type code: SP3-x-yy-zz-nnn

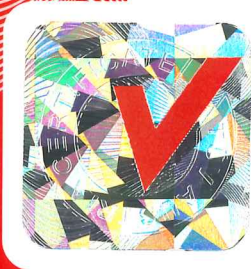
- x Detector type
1: Detector UV-Vis 200 - 720 nm
2: UV detector
- yy optical path length
01: optical path length 1mm
05: optical path length 5mm
35: optical path length 35mm
- zz Certification
EX: ATEX version of the probe
- nnn Probe cable
Cable length in dm

Technical data

Supply voltage: 11...15V DC
Power consumption max: 20W
Back-up fuse: 3A max.

(16) **Test report**

TUV-A 2024-000195



(17) **Special conditions**

The original special conditions have been adapted and now read as follows:

- (17.1) The device is manufactured with a permanently mounted cable (cable tail) as an integral part of the flameproof enclosure: this cable entry must not be dismantled or replaced.
A cable connection or cable extension may only be made outside potentially explosive atmospheres or inside potentially explosive atmospheres using a suitable explosion-proof terminal enclosure.
- (17.2) The ambient temperature range is 0°C to +45°C and briefly ($t < 3$ min) up to max. 50°C.
- (17.3) The device may only be connected to an appropriate power supply with a short-circuit current limiter, ensured by a fuse with $I_N = 3A$ max.

(18) **Essential health and safety requirements**

Covered by the application of the above standards

In addition to the essential health and safety requirements covered by the standards referred to in point 9, the following requirements have been identified as essential for the appliance and are verified by

Section	Requirement
1.0.6	Information sheet and device description s::can V3 Ex spectrometer probe



(19) Drawings and documents

Document / drawing number / file / reference	Rev	Pages	Date	Designation
SVP3_ATEX_Zertifizierung_Dokumentenmappe_20240808	1.0	439	07.08.2024	Spectro::lyser V3 ATEX Dokumentenmappe für die ATEX Zertifizierung
Erläuterung_der_Sicherheitsmaßnahmen_für_die_druckfeste_Kapselung_SPV3_20250217	V101	7	17.02.2025	Ausführung zu den Exd-Spalten (Korrektur/Änderung)
spectroV3_075mm_ATEX_EXSPALT	0002	1	06.06.2024	Graphische Darstellung der Exd-Spalte
OptischenLeistungsmessungenSP2-SP3-ATEX	02	7	28.05.2025	Testbericht opt. Strahlungsmessung (SP-V2 & V3)
d_ex_sonde_V3_20250527	1.1	2	27.05.2025	Hinweisblatt s::can V3 Ex-Spektrometersonde
d_ex_sonde_V3_Geraetebesreibung_20250527	1.1	2	27.05.2025	Gerätebeschreibung s::can V3 Ex-Spektrometersonde
SCA-DS-04943-EN-02_spectrolyser_V3_ww_ATEX	-	2	2025	Produktblatt

Note on the transitional provisions:

According to Article 41 of Directive 2014/34/EU, EC-Type examination certificates which have been issued according to Directive 94/9/EC prior to the date of coming into force of Directive 2014/34/EU (April 20, 2016) may be considered as if they were issued already in compliance with Directive 2014/34/EU. By permission of the European Commission, supplements to such EC-Type examination certificates and new issues of such certificates may continue to hold the original certificate number issued before April 20th, 2016.