



1 **EU-TYPE EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **PTZ 17ATEX0003X** Issue: **2**

4 Equipment: **Humidity / Dew point sensor FA515 Ex**

5 Applicant: **CS Instruments GmbH & Co.KG**

6 Address: **Zindelsteiner Straße 15
78052 Villingen-Schwenningen
Germany**

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

8 CSA Group Netherlands B.V., notified body number 2813 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

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 equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

11 This EU-Type Examination Certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:



II 2G Ex ib IIC T4 Gb
II 2D Ex ib IIIC T80°C Db

Project Number 80067536

Signed: J A May

Title: Director of Operations

CSA Group Netherlands B.V.
Utrechtseweg 310, Building B42,
6812AR, Netherlands



SCHEDULE

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13 DESCRIPTION OF EQUIPMENT

The device FA515 Ex is a loop-fed humidity / dew point sensor which has a dew point in the range of -80 to 50 ° Ctd. Proportional current signal of 4 ... 20mA generated.

The dew point sensor FA515 Ex must be operated in a certified intrinsically safe circuit.

The sensor is connected via a standardized M12 connector.

Technical data

Supply and signal circuit in type of protection Intrinsic Safety Ex ib IIC or IIIC: Only for the connection to a certified intrinsically safe circuit.		
Max. Burden output signal:		500R at 24VDC
Max. Input voltage	P _i	0,65W
Max. Input voltage.	U _i	28 V
Max. Input current	I _i	95 mA
Max. effective internal inductance	L _i	negligible small
Max. effective capacity	C _i	47nF
Output signal:		4 .. 20 mA two-wire technology
Protection		IP64

Variation 1 - This variation introduced the following changes:

i. The change of Applicants name and address as follows:

From:

CS Instruments GmbH & Co. KG
Am Oker 28c
24955 Harrislee
Germany

To:

CS Instruments GmbH & Co.KG
Zindelsteiner Straße 15
78052 Villingen-Schwenningen
Germany

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	25 April 2018	17PP127-01_0	The release of the prime certificate.
1	30 January 2019	17PP127-01_1	The introduction of Issue 1, changes detailed in the report.
2	17 May 2021	R80067536A	This Issue covers the following changes: <ul style="list-style-type: none">• Transfer of certificate PTZ 17ATEX0003X from KIWA Nederland B.V. to CSA Group Netherlands B.V..• The introduction of Variation 1.

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15 SPECIFIC CONDITIONS OF USE (denoted by X after the certificate number)

- 15.1 Ambient temperature range between -20°C and +50°C for II 2D Ex ib IIIC T80°C Db.
- 15.2 Ambient temperature range between -20°C and +70°C for II 2G Ex ib IIC T4 Gb.
- 15.3 Do not separate when energized.
- 15.4 Do not open in hazardous area.
- 15.5 Integration into the potential equalization is carried out via the installation.
- 15.6 The device must only be operated with a fuse with a 1500A cut-off capacity.
- 15.7 The operating instructions must be observed.

16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

17 CONDITIONS OF MANUFACTURE

- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of CSA Certificates.
- 17.2 Holders of EU-Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU.

CSA Group Netherlands B.V.
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Certificate Annexe



Certificate Number: PTZ 17ATEX0003X
Equipment: Humidity / Dew point sensor FA515 Ex
Applicant: CS Instruments GmbH & Co.KG

Issue 0 – refer to the report in Section 14.2.

Issue 1 - refer to the report in Section 14.2.

Issue 2

Drawing	Sheets	Rev.	Date (Stamp)	Title
020 000 756	1 of 1	1.04	07 May 21	Typenschilder_FA515Ex

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