(1) # STATEMENT OF CONFORMITY

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

(3) Document No.

ExGuide 21 ATEX 1001 X Edition 1

(4) Equipment: **d-LIST System**

(5) Manufacturer: **Listec GmbH**

(6) Address: **Am Sandberg 34**
84424 Isen

(7) The design of this product and the various permissible versions are specified in the annex to this certificate and the documents listed therein.

(8) ExGuide Technology - Geoffrey Stenzel, as a certified engineering company, certifies that the product meets the basic safety and health requirements for the design and construction of category 3 equipment for use in potentially explosive atmospheres in accordance with Annex II of Directive 2014/34/EU. The results of the test are documented in the confidential test report No. R20200031PB.

The QM system of the engineering offices ExGuide Technology - Geoffrey Stenzel is monitored according to ISO 9001:2015 by AJA Europe Ltd. and listed under certificate No. AJ AEU/19/15703.

(9) The essential health and safety requirements are met by compliance with:

EN IEC 60079-0: 2018	**EN IEC 60079-7:2015+A1:2018**
EN IEC 60079-15: 2019	**EN IEC 60079-31:2014**

(10) If the sign "X" is placed after a certificate number, special conditions for the safe use of the equipment are indicated in the appendix to this certificate. If no certificate number according to (3) is applied to the device, the sign "X" must be placed after the Ex marking according to (12).

(11) This certificate refers only to the design and specifications for the construction of the device according to directive 2014/34/EU. Further requirements apply to the manufacture and placing into market of this product. These requirements are not covered by this certificate.

(12) The Ex-marking of the product must contain the following information:

II 3G Ex ec nC IIC T4 Gc
II 3D Ex tc IIIB T125°C Dc for evaluation unit type SCU 800-03-Ex

II 3G Ex ec IIC T4 Gc
II 3D Ex tc IIIB T125°C Dc for sensor cable and single sensor

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Essen, dated 04. August 2022

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(13) Annex

(14) **ExGuide 21 ATEX 1001 X** Edition 1

(15) Description of the product

15.1 Subject and type designation

The d-LIST system consists of the following devices:

a) Evaluation unit type SCU 800-03-Ex, for installation in zone 2 or zone 22
or type SCU 800***, type SCU 835, type d-LCON for installation outside hazardous areas

b) Sensor cable type SEC 15/**-Ex with integrated temperature measuring points

c) Single sensor type ESD-A5-*L-**-Ex

Explanation of the type code SEC 15/**-Ex:

SEC 15/-Ex**	**Description**
1. + 2. asterisk	Sensor distance 01 = Sensor distance 1 m 02 = Sensor distance 2 m 03 = Sensor distance 3 m 04 = Sensor distance 4 m 05 = Sensor distance 5 m xx = Sensor spacing according to customer requirements, but at least 0.25 m

Explanation of the type code ESD-A5-*L-**-Ex:

ESD-A5-*L-*-Ex	Description
1. asterisk	Sleeve shape E = cuboid R = cylindrical
2.+3. asterisk	Cable length 02 = 2 m 05 = 5 m 10 = 10 m

15.2 Description

In a d-LIST system, the evaluation unit type SCU 800-03-Ex, type SCU 800***, type SCU 835 or type d-LCON queries the measured temperature values of the sensor cables type SEC 15/**-Ex and/or the single sensors type ESD-A5-*L-**-Ex at regular intervals. Depending on the application, this information is refined and can be made available to the process via potential-free relay contacts.

The evaluation units type SCU 800***, type SCU 835 and type d-LCON are not part of this conformity assessment.

Description of changes:

Assessment and of the changes to standards from EN IEC 60079-0:2018, EN IEC 60079-7/A1:2018, EN IEC 60079-15:2019 and EN 60079-31:2014 based on the unchanged design of the equipment.

15.3 Technical data

15.3.1 Thermal data

Ambient temperature ranges:

Evaluation unit type SCU 800-03-Ex	Ta	-20 °C to +60 °C
Single sensor	Ta	-20 °C to +70 °C
Sensor cable for gas Ex-areas	Ta	-20 °C to +70 °C
Sensor cable for dust Ex-areas	Ta	-20 °C to +80 °C

15.3.2 Electrical data

(Terminals on evaluation unit type SCU 800-03-Ex)

Rated voltage		21...29 V DC
Nominal voltage	UN	24 V DC
Max. Power loss		5 W

15.4 Minimum marking requirements on this equipment

Evaluation unit type SCU 800-03-Ex

Manufacturer with address:	Listec GmbH Am Sandberg 34 84424 Isen
Type designation:	SCU 800-03-Ex
Serial no.	
Year of manufacture	
Ex-marking:	II 3G Ex ec nC IIC T4 Gc II 3D Ex tc IIIB T125°C Dc
CE marking:	CE
Ambient temperature range:	-20 °C ≤ Ta ≤ 60 °C
Technical data	

Sensor cable

Manufacturer name:	Listec GmbH
Type designation:	SEC 15/**Ex
Ex-marking:	II 3G Ex ec IIC T4 Gc II 3D Ex tc IIIB T125°C Dc
Ambient temperature range:	-20 °C ≤ Ta ≤ 70 °C (gas) -20 °C ≤ Ta ≤ 80 °C (dust)

Single sensor

Manufacturer name:	Listec GmbH
Type designation:	EDS-A5-*L-**-Ex
Ex-marking:	II 3G Ex ec IIC T4 Gc II 3D Ex tc IIIB T125°C Dc
Ambient temperature range:	-20 °C ≤ Ta ≤ 70 °C

(16) Test and assessment report No. R20200031PB

(17) Special conditions for safe use

1. Single sensor EDS-A5-*L-**-Ex and sensor cable SEC 15/**Ex are intended exclusively for use with evaluation unit SCU 800-03-Ex, SCU 800***, SCU 835 or type d_LCON.
2. The units must be installed protected against high-energy electrostatic charges (propagating brush discharges).
3. The sensor cable must be installed mechanically protected when used in an ambient temperature above 70 degrees Celsius.
4. The sensor cable must be laid in areas of gas group IIC protected against electrostatic charge.
5. The single sensor is to be installed mechanically protected.
6. The single sensor is to be installed protected against UV light.

(18) Essential health and safety requirements

Fulfilled by compliance with the above-mentioned standards.

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