



UK TYPE EXAMINATION CERTIFICATE

No.

3CT 23UKEX1004X

- 1 UNITED KINGDOM CONFORMITY ASSESSMENT
- UK TYPE EXAMINATION CERTIFICATE**
- 2 **Product or Protective System Intended for use in Potentially Explosive Atmospheres**
UKSI 2016:1107 (as amended) – Schedule 3A, Part 1
- 3 Type Examination Certificate **3CT 23UKEX1004X**
No.:
- 4 Product: **L-Com 5500 Series - Density and Sound Velocity Sensor. Model #
detail refer to Annex Page**
- 5 Manufacturer: **Anton Paar GmbH**
- 6 Address: **Anton-Paar-Strasse 20
Graz, 8054
Austria**
- 7 This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- 8 3C Test Ltd. Approved Body number 8508, in accordance with Regulation 42 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), certifies that this product 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 Schedule 1 of the Regulations.
- The examination and test results are recorded in the confidential report **UKEX1437-1**
- 9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN IEC 60079-0:2018 EN 60079-1:2014
- Except in respect of those requirements listed at section 18 of the schedule to this certificate.
- 10 If the sign “X” is placed after the certificate number, it indicates that the product is subject to specific conditions of use specified in the schedule to this certificate.
- 11 This UK TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- 12 The marking of this product shall include the following:
 II 2G Ex db IIB T4/T5 Gb For full markings detail refer to Annex Page
- This certificate and its schedules may only be reproduced in its entirety and without change.



- 13 Schedule to UK Type Examination Certificate
- 14 Certificate Number 3CT 23UKEX1004X

15 Description of Product

The L-Com 5500 Series Density and Sound Velocity Sensors are process measuring instruments that are used to measure the density and sound velocity values of liquids. The sensor consists of the encapsulated sensing element and a sensor board, which is connected to the sensing element with a feedthrough. The sensor board is connected to the process instrumentation controller (Pico 3000) or to an external evaluation unit. The Pico 3000 can be installed in the electronic housing of the sensor or in an optional remote operating housing (Pico 3000 RC). The Pico 3000 can be used with an optional HMI (Pico 3000 HMI).

- 16 Test report No. (associated with this certificate issue): UKEX1437-1

17 Specific Conditions of Use

Density and Sound Velocity Sensor L-Com 5500 HAS Ex d is suitable for application at an extended ambient temperature range, and such is having defined special conditions for safe use as follow:

- For power cable, use only a cable whose thermal stability of its insulation is minimum 90°C.
- For cable entrances use only already certified Ex d or Ex db cable glands suitable for application and rated for a minimum of 80°C.
- Unused openings shall be closed by use of already certified Ex d or Ex db stopping plugs suitable for application.

18 Essential Health and Safety Requirements (Regulations Schedule 1)

In addition to the Essential Health and Safety Requirements covered by the standards listed at item 9, all other requirements are demonstrated in the relevant reports.

19 Drawings and Documents

Technical Documents			
Title:	Drawing No.:	Rev. Level:	Date:
L-Com 5500 Oscillator and Containment System [2 sheets]	H77M00078	C	14.11.2019
Flamepaths Pico HMI Ex d [4 sheets]	E04MZ0016	H	04.10.2019
Cover Pico Ex d marked	H77M00197	A	04.07.2023
Ring Nut Pico Ex d marked	H77M00198	A	04.07.2023
Label L-Com 5500 HAS Ex d	H77SL06	A	04.07.2023
Label L-Com 5500 HAS Ex d with Pico 3000	H77SL07	A	04.07.2023
Label L-Com 5500 Ex d with Pico 3000 HMI	H77SL08	A	04.07.2023
Instruction Manual and Safety Information - L-Dens 7000 (Ex d), L-Com 5500 (Ex d), Inline Pump 300 (Ex d)	E04IB003EN	A	June 2023



- 13 Schedule to UK Type Examination Certificate
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Annex

Table 1. Equipment name/model number and markings

The L-Com 5500 Series Density and Sound Velocity Sensors.

Nomenclature

Model number	Markings
L-Com 5500 HAS Ex d L-Com 5500 HAS NPT Ex d	II 2 G Ex db IIB T4/T5 Gb Ta= -25°C to 65°C Tp= -25°C to 95°C(T5)/125°C(T4) Maximum process pressure: 50 bar
L-Com 5500 HAS Ex d (with Pico 3000) L-Com 5500 HAS NPT Ex d (with Pico 3000)	II 2 G Ex db IIB T4/T5 Gb Ta= -25°C to +55°C Tp= -25°C to 95°C(T5)/125°C(T4) Maximum process pressure: 50 bar
L-Com 5500 HAS Ex d (with Pico 3000 and HMI) L-Com 5500 HAS NPT Ex d (with Pico 3000 and HMI)	II 2 G Ex db IIB T4/T5 Gb Ta= -20°C to 55°C Tp= -25°C to 95°C(T5)/125°C(T4) Maximum process pressure: 50 bar

You can check the validity of this certificate into our website at:



Arbi Aloui
 Manager
 Ex Products and Systems, United Kingdom
 Silverstone, 15th November 2023