

IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION **IEC Certification System for Explosive Atmospheres**

for rules and details of the IECEx Scheme visit www.iecex.com				
Certificate No.:	IECEx QPS 18.0002X	Page 1 of 4	Certificate history:	
Status:	Current	Issue No: 1	Issue 0 (2018-03-27)	
Date of Issue:	2020-03-24			
Applicant:	Anton Paar GmbH Anton-Paar-Strasse 20 Graz, 8054 Austria			
Equipment:	Density Sensor -L-Dens Series			
Optional accessory:				
Type of Protection:	d			
Marking:	IECEx QPS 18.0002X Ex db IIB T4/T5 Gb See equipment section for full mark	king details		
Approved for issue on Certification Body:	on behalf of the IECEx	D, Adams P.Eng.		
Position:		Manager, Hazardous Locations Departmer	nt [Ex Equipment]	
Signature: (for printed version)				
Date:				
2. This certificate is	nd schedule may only be reproduced not transferable and remains the pro authenticity of this certificate may be v	in full. Sperty of the issuing body. Verified by visiting www.iecex.com or use of this QR Code.		

Certificate issued by:

Evaluation Services Inc. 81 Kelfield St Unit 8 **Toronto, Ontario M9W 5A3** Canada





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Manufacturer: Anton Paar GmbH

Anton-Paar-Strasse 20

Graz, 8054 **Austria**

Additional manufacturing locations:

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 equipment 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 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements Edition:7.0

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 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 Reports:

Quality Assessment Report:

DE/TPS/QAR14.0002/04



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The L-Dens 7000 density sensors series (L-Dens 7300/7400/7500) are process measuring instruments that are used to measure the density 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).

The limitation of the ambient temperature for the sensor or the sensor with Pico 3000 and the sensor with Pico 3000 and HMI is different.

Sensor or sensor with Pico 3000: Ta = -40°C to +70°C

Sensor with Pico 3000 and HMI: Ta = -20°C to +60°C

Model Nomenclature:

See Attached file

SPECIFIC CONDITIONS OF USE: YES as shown below:

- 1. For power cable, use only a cable whose thermal stability of its insulation is minimum 90°C.
- 2. 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 and rated for a minimum of 80°C.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

issue 1: new model L-Dens 7300 PETRO Series.

Annex:

Attachment 1.pdf

Model	Markings
L-Dens 7300 SST Petro Ex d	Ex db IIB T4/T5 Gb
L-Dens 7300 SST Petro NPT Ex d	Ta= -40°C to +70°C
	Tp= -40°C to 95°C for T5 and -40°C to 125°C for T4
L-Dens 7300 SST Petro Ex d (with Pico 3000)	Maximum process pressure: 50 bar
L-Dens 7300 SST Petro NPT Ex d (with Pico 3000)	
Where SST denotes material:	
SST - Stainless Steel 1.4404	
L-Dens 7300 SST Petro Ex d (with Pico 3000 and	Ex db IIB T4/T5 Gb
HMI)	Ta= -20°C to +60°C
L-Dens 7300 SST Petro NPT Ex d (with Pico 3000	Tp= -40°C to 95°C for T5 and -40°C to 125°C for T4
and HMI)	Maximum pressure: 50 bar
,	
Where SST denotes material:	
SST - Stainless Steel 1.4404	
L-Dens 7400 AAA Ex d	Ex db IIB T4/T5 Gb
L-Dens 7400 AAA NPT Ex d	Ta= -40°C to +70°C
L-Dens 7400 AAA Ex d (with Pico 3000)	Tp= -40°C to 95°C for T5 and -40°C to 125°C for T4
L-Dens 7400 AAA NPT Ex d (with Pico 3000)	Maximum pressure: 50 bar
= = = = = = = = = = = = = = = = = = =	
Where AAA denotes material options:	
HAS - Hastelloy C-276	
SST - Stainless Steel 1.4404	
TAN - Tantalum	
INC - Incoloy 825	
L-Dens 7400 AAA Ex d (with Pico 3000 and HMI)	Ex db IIB T4/T5 Gb
L-Dens 7400 AAA NPT Ex d (with Pico 3000 and HMI)	Ta= -20°C to +60°C
L-Delis 7400 AAA NET EX û (Willi Fico 3000 and Hill)	Tp= -40°C to 95°C for T5 and -40°C to 125°C for T4
Where AAA denotes material options:	Maximum pressure: 50 bar
HAS - Hastelloy C-276	Maximum pressure. 50 bar
SST - Stainless Steel 1.4404	
TAN - Tantalum	
INC - Incoloy 825	
L-Dens 7400 HAS HP Ex d	Ex db IIB T4/T5 Gb
L-Dens 7400 HAS HP NPT Ex d	Ta= -40°C to +70°C
(High Pressure version)	Tp= -40°C to 95°C for T5 and -40°C to 125°C for T4
L-Dens 7400 HAS HP Ex d (with Pico 3000)	Maximum process pressure:
L-Dens 7400 HAS HP NPT Ex d (with Pico 3000)	180 bar for Tp≤ 70°C
(High Pressure version)	140 bar for Tp≤ 125°C
(High Fressure version)	140 bal lol 1p= 120 C
Where HAS denotes material:	
HAS - Hastelloy C-276	
L-Dens 7400 HAS HP Ex d (with Pico 3000 and HMI)	Ex db IIB T4/T5 Gb
L-Dens 7400 HAS HP NPT Ex d (with Pico 3000 and	Ta= -20°C to +60°C
HMI)	Tp= -40°C to 95°C for T5 and -40°C to 125°C for T4
(High Pressure version)	Maximum process pressure:
(ingii i leasure version)	180 bar for Tp≤ 70°C
Where HAS denotes material:	140 bar for Tp≤ 125°C
HAS - Hastelloy C-276	140 Dai 101 TP= 120 C
L-Dens 7500 HAS Ex d	Ex db IIB T4/T5 Gb
L-Dens 7500 HAS EX d	Ta= -40°C to +70°C
L-Dens 7500 HAS NPT EX d L-Dens 7500 HAS Ex d (with Pico 3000)	Ta = -40°C to +70°C
L-Dens 7500 HAS NPT Ex d (with Pico 3000)	·
L-Delia 1300 HAS NET EX U (WILLI FICO 3000)	Maximum pressure: 50 bar
Where HAS denotes material:	
HAS - Hastelloy C-276	Ev. db IID T4/T5 Cb
L-Dens 7500 HAS Ex d (with Pico 3000 and HMI)	Ex db IIB T4/T5 Gb Ta= -20°C to +60°C
L-Dens 7500 HAS NPT Ex d (with Pico 3000 and HMI)	
Whore HAS denotes material:	Tp= -40°C to 95°C for T5 and -40°C to 125°C for T4
Where HAS denotes material:	Maximum pressure: 50 bar
HAS - Hastelloy C-276	

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Pico 3000 RC Ex d (with Pico 3000 and HMI)	Ex db IIB T5 Gb
Pico 3000 RC NPT Ex d (with Pico 3000 and HMI)	Ta= -20°C to +60°C