

Testing, Certification and Field Evaluation Body Accredited in Canada, the USA, and Internationally

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File LR1437

## **CERTIFICATE OF COMPLIANCE**

(ISO TYPE 3 CERTIFICATION SYSTEM)

Issued to Anton Paar GmbH

Address Anton-Paar-Strasse 20

Graz, Austria, 8054

Project Number LR1437-2R3

Product Sound Velocity Sensors

Model Number See below for model information

Ratings 24 Vdc ± 20%, max. 4 W / max. 7W (with Pico 3000)

Markings See below for markings

Applicable Standards CSA C22.2 No. 60079-0:2015

CSA C22.2 No. 60079-1: 2016 CSA C22.2 No. 30-1986 CSA C22.2 No. 61010-1-12 CSA C22.2 No. 60529:16 CSA C22.2 No. 94.2-2015

UL 60079-0:2013 UL 60079-1:2015 FM 3615:2006 FM 3600:2011

UL 61010-1:2012 Edition 3 IEC/ANSI 60529-2004 UL 50E 2nd edition

Factory/Manufacturing Location Same as Applicant

**Statement of Compliance**: The product(s) identified in this Certificate and described in the Report covered under the above referenced project number have been investigated and found to be in compliance with the relevant requirements of the above referenced standard(s). As such, they are eligible to bear the QPS Certification Mark shown below, in accordance with the provisions of QPS's Service Agreement.



Issued By: Dave Adams, P.Eng

Manager, Hazardous Locations [Ex Equipment] Department

Signature: Date: February 23, 2022

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#### **Models and Markings:**

Model	Markings
L-Sonic 5100 VN SST L3 Ex d	Markings Class I Division 1 Gr CD T4/T5
L-Sonic 5100 VN SST L3 EX d	Ex db IIB T4/T5 Gb
L-Sonic 5100 DN SST L3 Ex d	Class I Zone 1, AEx db IIB T4/T5 Gb
L-Sonic 5100 DN SST L3 NPT Ex d	Ta= -25°C to +65°C
	Tp= -25°C to 95°C for T5 and -25°C to 125°C for T4
	Maximum pressure: 16 bar
	IP66/Enclosure Type 4X
L-Sonic 5100 VN SST L3 Ex d (with Pico 3000)	Class I Division 1 Gr CD T4/T5
L-Sonic 5100 VN SST L3 NPT Ex d (with Pico 3000)	Ex db IIB T4/T5 Gb
L-Sonic 5100 DN SST L3 Ex d (with Pico 3000)	Class I Zone 1, AEx db IIB T4/T5 Gb
L-Sonic 5100 DN SST L3 NPT Ex d (with Pico 3000)	Ta= -25°C to +55°C
	Tp= -25°C to 95°C for T5 and -25°C to 125°C for T4
	Maximum pressure: 16 bar
	IP66/Enclosure Type 4X
L-Sonic 5100 VN SST L3 Ex d (with Pico 3000 and HMI)	Class I Division 1 Gr CD T4/T5
L-Sonic 5100 VN SST L3 NPT Ex d (with Pico 3000 and HMI)	Ex db IIB T4/T5 Gb
L-Sonic 5100 DN SST L3 Ex d (with Pico 3000 and HMI)	Class I Zone 1, AEx db IIB T4/T5 Gb
L-Sonic 5100 DN SST L3 NPT Ex d (with Pico 3000 and HMI)	Ta= -20°C to +55°C
	Tp= -25°C to 95°C for T5 and -25°C to 125°C for T4
	Maximum pressure: 16 bar
	IP66/Enclosure Type 4X
L-Sonic 5100 EN AAA L6 Ex d	Class I Division 1 Gr CD T4/T5
L-Sonic 5100 EN AAA L6 NPT Ex d	Ex db IIB T4/T5 Gb
L-Sonic 5100 AN AAA L6 Ex d	Class I Zone 1, AEx db IIB T4/T5 Gb
L-Sonic 5100 AN AAA L6 NPT Ex d	Ta= -25°C to +65°C
L-Sonic 5100 CF CL Ex d	Tp= -25°C to 95°C for T5 and -25°C to 125°C for T4
L-Sonic 5100 CF CL NPT Ex d	pmax acc. to flange spec.
	IP66/Enclosure Type 4X
Where AAA denotes material options:	
SST - Stainless Steel 1.4404	
HAS - HASTELLOY® HYBRID-BC1® alloy	
MON - Monel 400	
ROC - Rhodium coated	
L-Sonic 5100 EN AAA L6 Ex d (with Pico 3000)	Class I Division 1 Gr CD T4/T5
L-Sonic 5100 EN AAA L6 NPT Ex d (with Pico 3000)	Ex db IIB T4/T5 Gb
L-Sonic 5100 AN AAA L6 Ex d (with Pico 3000)	Class I Zone 1, AEx db IIB T4/T5 Gb
L-Sonic 5100 AN AAA L6 NPT Ex d (with Pico 3000)	Ta= -25°C to +55°C
L-Sonic 5100 CF CL Ex d (with Pico 3000)	Tp= -25°C to 95°C for T5 and -25°C to 125°C for T4
L-Sonic 5100 CF CL NPT Ex d (with Pico 3000)	pmax acc. to flange spec.
	IP66/Enclosure Type 4X
Where AAA denotes material options:	71
SST - Stainless Steel 1.4404	
HAS - HASTELLOY® HYBRID-BC1® alloy	
MON - Monel 400	
ROC - Rhodium coated	
L-Sonic 5100 EN AAA L6 Ex d (with Pico 3000 and HMI)	Class I Division 1 Gr CD T4/T5
L-Sonic 5100 EN AAA L6 NPT Ex d (with Pico 3000 and HMI)	Ex db IIB T4/T5 Gb
L-Sonic 5100 AN AAA L6 Ex d (with Pico 3000 and HMI)	Class I Zone 1, AEx db IIB T4/T5 Gb
L-Sonic 5100 AN AAA L6 NPT Ex d (with Pico 3000 and HMI)	Ta= -20°C to +55°C
L-Sonic 5100 CF CL Ex d (with Pico 3000 and HMI)	Tp= -25°C to 95°C for T5 and -25°C to 125°C for T4
L-Sonic 5100 CF CL NPT Ex d (with Pico 3000 and HMI)	pmax acc. to flange spec.
E-OUTILG STOU OF OLD INFTER U (WILLIFTED SOUD ALLA TIVII)	pinax acc. to hange spec.



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	IP66/Enclosure Type 4X
Where AAA denotes material options:	1F00/Eliciosule Type 4A
SST - Stainless Steel 1.4404	
HAS - HASTELLOY® HYBRID-BC1® alloy	
MON - Monel 400	
ROC - Rhodium coated	
L-Sonic 5100 DN40 GOC Ex d	Class I Division 1 Gr CD T4/T5
L-Sonic 5100 DN40 GOC NPT Ex d	Ex db IIB T4/T5 Gb
	Class I Zone 1, AEx db IIB T4/T5 Gb
	Ta= -25°C to +65°C
	Tp= -25°C to 95°C for T5 and -25°C to 125°C for T4
	Maximum pressure: 16 bar
	IP66/Enclosure Type 4X
L-Sonic 5100 DN40 GOC Ex d (with Pico 3000)	Class I Division 1 Gr CD T4/T5
L-Sonic 5100 DN40 GOC NPT Ex d (with Pico 3000)	Ex db IIB T4/T5 Gb
	Class I Zone 1, AEx db IIB T4/T5 Gb
	Ta= -25°C to +55°C
	Tp= -25°C to 95°C for T5 and -25°C to 125°C for T4 Maximum pressure: 16 bar
	IP66/Enclosure Type 4X
L-Sonic 5100 DN40 GOC Ex d (with Pico 3000 and HMI)	Class I Division 1 Gr CD T4/T5
L-Sonic 5100 DN40 GOC NPT Ex d (with Pico 3000 and HMI)	Ex db IIB T4/T5 Gb
E-come 5100 bit+0 coc iti i Ex a (with i lee 5000 and ilimi)	Class I Zone 1, AEx db IIB T4/T5 Gb
	Ta= -20°C to +55°C
	Tp= -25°C to 95°C for T5 and -25°C to 125°C for T4
	Maximum pressure: 16 bar
	IP66/Enclosure Type 4X
L-Sonic 6100 D1 SST LS Ex d	Class I Division 1 Gr CD T4/T5
L-Sonic 6100 D1 SST LS NPT Ex d	Ex db IIB T4/T5 Gb
	Class I Zone 1, AEx db IIB T4/T5 Gb
	Ta= -25°C to +65°C
	Tp= -25°C to 95°C for T5 and -25°C to 125°C for T4
	Maximum pressure:
	100 bar for Tp≤ 50°C
	70 bar for Tp≤ 125°C IP66/Enclosure Type 4X
L-Sonic 6100 D1 SST LS Ex d (with Pico 3000)	Class I Division 1 Gr CD T4/T5
L-Sonic 6100 D1 SST LS NPT Ex d (with Pico 3000)	Ex db IIB T4/T5 Gb
2 33 3100 D1 331 L3 14 1 LX 4 (WILLI 1 100 3000)	Class I Zone 1, AEx db IIB T4/T5 Gb
	Ta= -25°C to +55°C
	Tp= -25°C to 95°C for T5 and -25°C to 125°C for T4
	Maximum pressure:
	100 bar for Tp≤ 50°C
	70 bar for Tp≤ 125°C
	IP66/Enclosure Type 4X
L-Sonic 6100 D1 SST LS Ex d (with Pico 3000 and HMI)	Class I Division 1 Gr CD T4/T5
L-Sonic 6100 D1 SST LS NPT Ex d (with Pico 3000 and HMI)	Ex db IIB T4/T5 Gb
	Class I Zone 1, AEx db IIB T4/T5 Gb
	Ta= -20°C to +55°C
	Tp= -25°C to 95°C for T5 and -25°C to 125°C for T4
	Maximum pressure:
	100 bar for Tp≤ 50°C 70 bar for Tp≤ 125°C
	IP66/Enclosure Type 4X
	ii ou/Enologule Type TA



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#### Notes:

- 1. Field wiring must be suitable for a minimum 90°C.
- 2. For conduit entries, use only already certified connection facilities suitable for application and rated for a minimum of 80°C.
- 3. Unused openings shall be closed using certified stopping plugs suitable for application and rated for a minimum of 80°C.

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