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

Models and Markings:

Model	Markings
L-Sonic 5100 VN SST L3 Ex d **L-Sonic 5100 VN SST L3 NPT Ex d** **L-Sonic 5100 DN SST L3 Ex d** **L-Sonic 5100 DN SST L3 NPT Ex d**	Class I Division 1 Gr CD T4/T5 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 VN SST L3 Ex d (with Pico 3000) **L-Sonic 5100 VN SST L3 NPT Ex d (with Pico 3000)** **L-Sonic 5100 DN SST L3 Ex d (with Pico 3000)** **L-Sonic 5100 DN SST L3 NPT Ex d (with Pico 3000)**	Class I Division 1 Gr CD T4/T5 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 VN SST L3 Ex d (with Pico 3000 and HMI) **L-Sonic 5100 VN SST L3 NPT Ex d (with Pico 3000 and HMI)** **L-Sonic 5100 DN SST L3 Ex d (with Pico 3000 and HMI)** **L-Sonic 5100 DN SST L3 NPT Ex d (with Pico 3000 and HMI)**	Class I Division 1 Gr CD T4/T5 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: 16 bar IP66/Enclosure Type 4X
L-Sonic 5100 EN AAA L6 Ex d **L-Sonic 5100 EN AAA L6 NPT Ex d** **L-Sonic 5100 AN AAA L6 Ex d** **L-Sonic 5100 AN AAA L6 NPT Ex d** **L-Sonic 5100 CF CL Ex d** **L-Sonic 5100 CF CL NPT Ex d** Where AAA denotes material options: SST - Stainless Steel 1.4404 HAS - HASTELLOY® HYBRID-BC1® alloy MON - Monel 400 ROC - Rhodium coated	Class I Division 1 Gr CD T4/T5 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 pmax acc. to flange spec. IP66/Enclosure Type 4X
L-Sonic 5100 EN AAA L6 Ex d (with Pico 3000) **L-Sonic 5100 EN AAA L6 NPT Ex d (with Pico 3000)** **L-Sonic 5100 AN AAA L6 Ex d (with Pico 3000)** **L-Sonic 5100 AN AAA L6 NPT Ex d (with Pico 3000)** **L-Sonic 5100 CF CL Ex d (with Pico 3000)** **L-Sonic 5100 CF CL NPT Ex d (with Pico 3000)** Where AAA denotes material options: SST - Stainless Steel 1.4404 HAS - HASTELLOY® HYBRID-BC1® alloy MON - Monel 400 ROC - Rhodium coated	Class I Division 1 Gr CD T4/T5 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 pmax acc. to flange spec. IP66/Enclosure Type 4X
L-Sonic 5100 EN AAA L6 Ex d (with Pico 3000 and HMI) **L-Sonic 5100 EN AAA L6 NPT Ex d (with Pico 3000 and HMI)** **L-Sonic 5100 AN AAA L6 Ex d (with Pico 3000 and HMI)** **L-Sonic 5100 AN AAA L6 NPT Ex d (with Pico 3000 and HMI)** **L-Sonic 5100 CF CL Ex d (with Pico 3000 and HMI)** **L-Sonic 5100 CF CL NPT Ex d (with Pico 3000 and HMI)**	Class I Division 1 Gr CD T4/T5 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 pmax acc. to flange spec.

Where AAA denotes material options: SST - Stainless Steel 1.4404 HAS - HASTELLOY® HYBRID-BC1® alloy MON - Monel 400 ROC - Rhodium coated	IP66/Enclosure Type 4X
L-Sonic 5100 DN40 GOC Ex d **L-Sonic 5100 DN40 GOC NPT Ex d**	Class I Division 1 Gr CD T4/T5 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) **L-Sonic 5100 DN40 GOC NPT Ex d (with Pico 3000)**	Class I Division 1 Gr CD T4/T5 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) **L-Sonic 5100 DN40 GOC NPT Ex d (with Pico 3000 and HMI)**	Class I Division 1 Gr CD T4/T5 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: 16 bar IP66/Enclosure Type 4X
L-Sonic 6100 D1 SST LS Ex d **L-Sonic 6100 D1 SST LS NPT Ex d**	Class I Division 1 Gr CD T4/T5 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) **L-Sonic 6100 D1 SST LS NPT Ex d (with Pico 3000)**	Class I Division 1 Gr CD T4/T5 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: 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) **L-Sonic 6100 D1 SST LS NPT Ex d (with Pico 3000 and HMI)**	Class I Division 1 Gr CD T4/T5 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

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.