

IECEx Certificate of Conformity

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

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx EXV 23.0038X** Page 1 of 3 Certificate history:

Issue No: 0 Status: Current

2023-09-06 Date of Issue:

Applicant: Southland Sensing Ltd.

4045 E. Guasti Rd.

Ontario, CA 91761 **United States of America**

625 Series Gas Analyzer, Models OMD-625 and H2S-625 Equipment:

Optional accessory:

Flameproof "d", Intrinsic safety "i" Type of Protection:

Ex db ib IIB+H2 T4 Gb (Ta = -20° C to $+50^{\circ}$ C) Marking:

Approved for issue on behalf of the IECEx

Certification Body:

Position: **Certification Manager**

Signature:

(for printed version)

(for printed version)

- This certificate and schedule may only be reproduced in full.
 This certificate is not transferable and remains the property of the issuing body.
 The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

ExVeritas Limited Units 16-18 Abenbury Way Wrexham Ind. Est. Wrexham LL 139UZ **United Kingdom**





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Date of issue: 2023-09-06 Issue No: 0

Manufacturer: Southland Sensing Ltd.

4045 E. Guasti Rd.

#203

Ontario, CA 91761

United States of America

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 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"

Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

Edition:6.0

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 Report:

GB/EXV/ExTR23.0073/00

Quality Assessment Report:

GB/EXV/QAR23.0003/00



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The 625 Series Gas Analyzers detect percentage of gases in a sample process stream. The H2S-625 detects and measures percentages of hydrogen sulfide. The OMD-625 detects and measures percentages of Oxygen. Construction is the same except for the sensing element itself and minor electrical component changes to accommodate the different sensing elements. Power enters an Ex d enclosure onto a power PCB and this has I.S. outputs to intrinsically safe circuits that exit through an Ex d bushing. The I.S. circuits are contained within a neighbouring sheet metal enclosure that provides IP20 protection and is fitted with the gas sensing element. Both enclosures are mounted upon a stainless steel backplate for wall mounting.

As an option, mechanical components may also be mounted to the backplate such as simple valves and rotameter to facilitate the customer introducing sample streams into the sensing element. The sheet metal enclosure is also fitted with a simple LED screen HMI.

SPECIFIC CONDITIONS OF USE: YES as shown below:

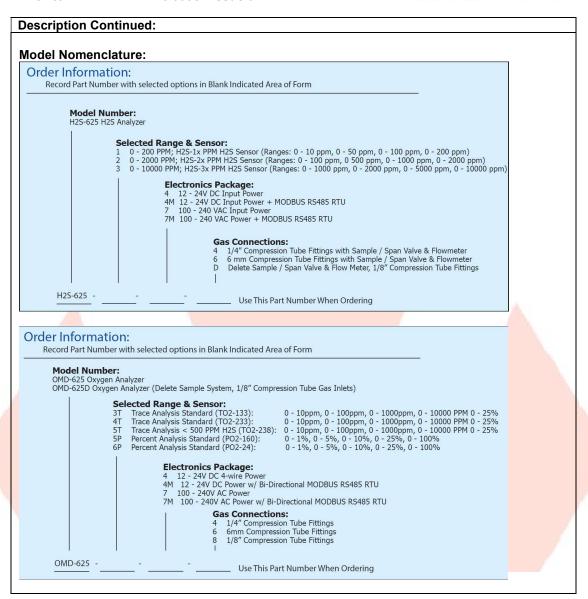
- · Only cable glands and conduit sealing fittings certified for protection types 'd' and have an IP66 rating may be used.
- · All unused device openings must be fitted with a certified close-up plug with protection types 'd' and have an IP66 rating.
- · Only one Hazardous Location Solutions reducer shall be used with any single cable entry on the associated equipment.
- The cable specific minimum ambient temperature is marked on the line bushing and it is detailed in the shipping documents.
- · Stopping plugs are not used in conjunction with any other cable entry device.
- Potential Electrostatic Charging Hazard See Instructions

Annex:

IECEx EXV 23.0038X Annex.pdf



Annex to: IECEx EXV 23.0038X Issue 0



Routine Tests:

1. None

Manufacturer's documents:				
Title:	Drawing No.:	Rev	Date:	
625 Series Bill of Materials	625-0001	1.03	07/01/2023	
625 Series Mechanical Assembly (sheet 7)	625-0002	1.02	07/01/2023	
XJDH N4 Approval For Southland ATEX / IECEX	SB4649	Α	11/08/2022	
625 Series Power Supply Schematic	EX-PCB-10041-SCH	B5	08/09/2023	
625 Series Power Supply Bill of Materials	EX-PCB-10041-BOM	1.00	08/09/2023	
625 Series Power Supply Layout	EX-PCB-10041-BRD	Α	08/16/2023	
625 Series Power Supply Gerber Files (ZIP)	EX-PCB-10041-GBR	B5	08/16/2023	



Annex to: IECEx EXV 23.0038X Issue 0

Manufacturer's documents:				
Title:	Drawing No.:	Rev	Date:	
625 Series Main Board Schematic	EX-PCB-10047-SCH	В3	08/11/2023	
625 Series Main Board Bill of Materials	EX-PCB-10047-BOM	1.00	08/09/2023	
625 Series Main Board Layout	EX-PCB-10047-BRD	В3	08/11/2023	
625 Series Main Board Gerber Files (ZIP)	EX-PCB-10047-GBR	В3	08/11/2023	
625 Series Modbus / PicoPort Schematic	EX-PCB-10049-SCH	Α	04/21/2023	
625 Series Modbus / PicoPort Bill of Materials	EX-PCB-10049-BOM	1.00	07/10/2023	
625 Series Modbus / PicoPort Layout	EX-PCB-10049-BRD	Α	04/21/2023	
625 Series Nameplate Drawing	625_Series_Nameplate_2023	1.00	07/06/2023	