IECEX

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 TRC 13.0006X	Page 1 of	4	Certificate history:
Status:	Current	Issue No:	. N	Issue 3 (2021-05-21)
Date of Issue:	2022-04-27	13506 110. 1		Issue 2 (2019-05-29) Issue 1 (2015-04-29)
Applicant:	Online Electronics Ltd. Online House Blackburn Business Park Woodburn Road Blackburn Aberdeen AB21 0PS United Kingdom			Issue 0 (2013-06-25)
Equipment:	ID5001 Ultrasonic Pipeline signal ULTRAlert v02 Passive	sensing equipment, ID5001A, ID5001P,	, Hi-T ULTRAlert v02	Active, Hi-T
Optional accessory:				
Type of Protection:	Flameproof "d", Intrinsic Safety "	ia"		
Marking:	Ex ia/db [ia Ga] IIC T4…T6 Ga/Gb	Model ID5001P passive sensor		
	× C	2°		
Approved for issue o Certification Body:	n behalf of the IECEx	Stephen Winsor		
Position: Signature: (for printed version) Date: (for printed version)		Certification Manager		
 This certificate and s This certificate is not 	schedule may only be reproduced in full. t transferable and remains the property of the enticity of this certificate may be verified by vis			
Certificate issued Element Materia Unit 1 Pendle PI Skelmersdale West Lancashire	als Technology lace		ele	menť

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Certificate No.:	IECEx TRC 13.0006X		Page 2 of 4	S
Date of issue:	2022-04-27		Issue No: 4	
Manufacturer:	Online Electronics Ltd. Online House			X
	Blackburn Business Parl Woodburn Road Blackburn Aberdeen AB21 0PS United Kingdom	K	6	
Manufacturing locations:	Online Electronics Ltd. Online House Blackburn Business Parl Woodburn Road Blackburn Aberdeen AB21 0PS United Kingdom			
	U U			
IEC Standard list belo found to comply with	ow and that the manufactu	ample(s), representative of production, rer's quality system, relating to the Exp requirements.This certificate is granted s amended	products covered by this certif	ficate, was assessed and
STANDARDS : The equipment and a to comply with the foll		o it specified in the schedule of this cer	tificate and the identified docu	iments, was found
IEC 60079-0:2017 Edition:7.0	Explosive atmospheres	- Part 0: Equipment - General requirem	ents	
IEC 60079-1:2014-06 Edition:7.0	Explosive atmospheres	Part 1: Equipment protection by flame	proof enclosures "d"	
IEC 60079-11:2011 Edition:6.0	Explosive atmospheres	Part 11: Equipment protection by intrin	isic safety "i"	
		not indicate compliance with safety an n those expressly included in the Stand		
TEST & ASSESSME A sample(s) of the eq		sfully met the examination and test req	uirements as recorded in:	
Test Reports:				
GB/TRC/ExTR13.000 GB/TRC/ExTR13.000		B/TRC/ExTR13.0006/01	GB/TRC/ExTR13.0006/02	2
Quality Assessment F	Report:			
GB/TRC/QAR11.0002	2/09			
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Date of issue:

EX IRC 13.000

2022-04-27

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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The ID5001A Active Ultrasonic Pig Signaller uses 'Active' ultrasonic techniques to detect, log and display the passage of PIGs through oil and gas pipelines. Ultrasonic pulses are generated within the 'Active' transducer and transmitted into a pipeline. Reflections from these pulses are received by the 'Active' transducer and passed to the main electronics for amplification and processing. When a PIG passes the point of installation it can be detected by monitoring these reflections. The Hi-T ULTRAlert v02 Active Ultrasonic Pig Signaller is identical to the ID5001A, but has its own markings.

The ID5001P Passive Ultrasonic Pig Signaller uses 'Passive' ultrasonic techniques to detect, log and display the passage of PIGs through oil and gas pipelines. The 'Passive' transducer receives sounds generated within pipelines and passes them to the main electronics for amplification and processing. When a PIG passes the point of installation it can be detected by monitoring the sounds generated by the PIG itself as it travels through the pipeline. The Hi-T ULTRAlert v02 Passive Ultrasonic Pig Signaller is identical to the ID5001P, but has its own markings.

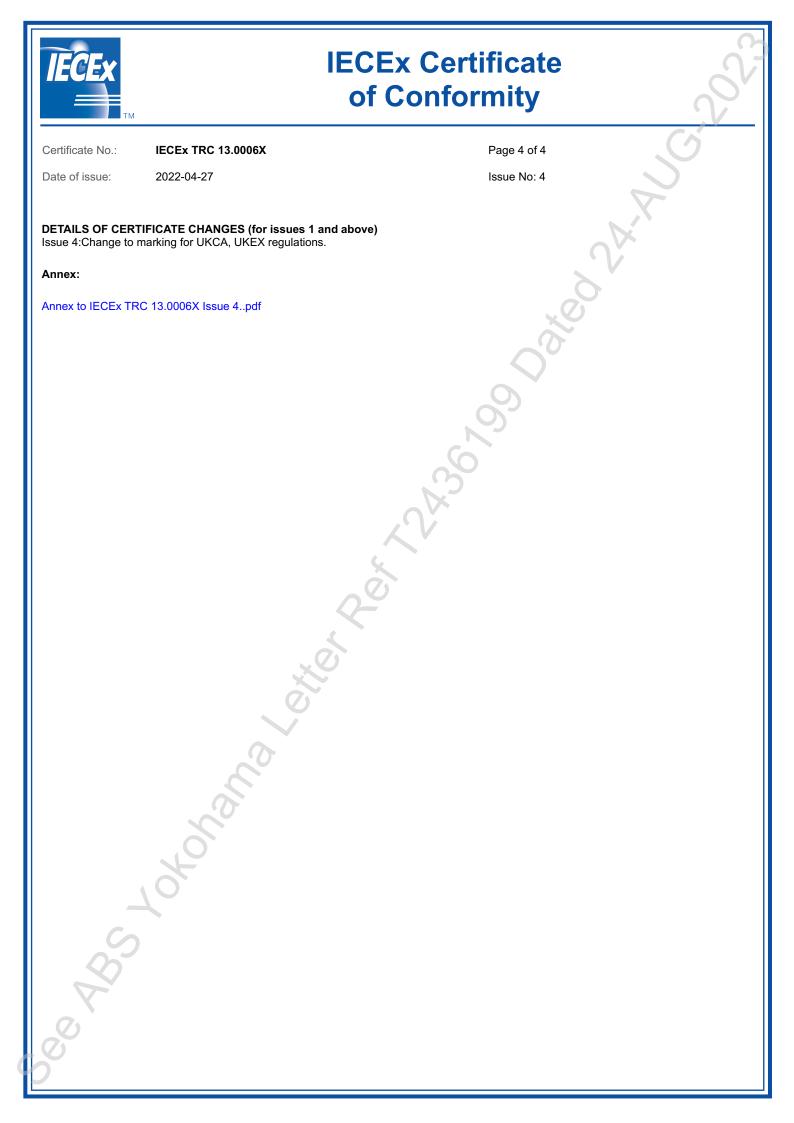
The ID5001A and ID5001P comprise of a component certified flameproof enclosure (AH01) connected to an intrinsically safe transducer via a cable and suitably certified cable entries. The AH01 flameproof housing contains all display and sensing electronics, optional battery pack and optional external power and interface connections via suitably certified cable entries / glands. The AH01 flameproof enclosure is separately certified as a component under IECEx certificate number IECEx TRC 12.0018U.

The equipment transducers are encapsulated inside dedicated transducer housings and are connected to the AH01 housing via a cable and gland. Any gland may be used at the transducer end. The transducer housings do not extend to cover the transducer face which relies upon the encapsulation as part of the enclosure to protect from ingress of liquids or solids. The exposed encapsulant is intended to be installed in direct contact with metallic pipelines and does not require additional protection against impact, UV light or electrostatic charging. The encapsulant is not critical for safety.

The ambient temperature range of the flameproof enclosure varies with configuration and power dissipation, see Annex to this certificate

SPECIFIC CONDITIONS OF USE: YES as shown below: see Annex to this certificate.

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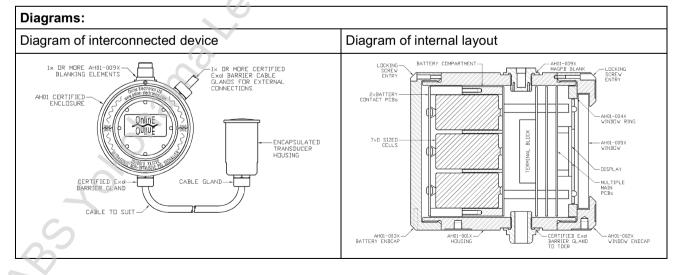
Annex to IECEx Certificate of Conformity

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2023

Temperature class and ambient temperature range ID5001P:						×O.						
	External supply (no cells fitted)		DURACELL INDUSTRIAL ID1300 fitted		SAFT LS33600 fitted		ANSMANN MaxE D fitted					
:Pd	T4	T5	T6	T4	T5	T6	T4	T5	Т6	T4	T5	T6
<1W <5W	-40 to	85°C	-40 to 75°C -40 to			-40 to	85°C	-40 to 75°C -40 to	-2	20 to 65°	С	
-011			70°C	-2	20 to 54°	С	6		70°C			
<10W	-40 to	-40 to	-40 to				-40 to	-40 to	-40 to	-20 to	-20 to	-20 to
	75°C	70°C	55°C				75°C	70°C	55°C	65°C	65°C	55°C

ID5001/	A :		V	
	External supply (no cells fitted)	DURACELL INDUSTRIAL ID1300 fitted	SAFT LS33600 fitted	ANSMANN MaxE D fitted
Pd	T4	T4	T4	T4
<1W <5W	-40 to 85°C	-20 to 54°C	-40 to 85°C	-20 to 65°C
<10W	-40 to 75°C		-40 to 75°C	



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Specific Conditions of Use"

- 1. Do not open when an explosive gas atmosphere may be present.
- 2. Potential electrostatic charging hazard. The equipment should not be mounted in areas where it could be subjected to highly efficient charging mechanisms, such as fast moving dust or particle filled air, and shall only be cleaned with an anti-static or damp cloth.
- 3. Sensor, cable and electronics shall only be used as a complete assembly.
- 4. Internal and external threaded holes are provided for earthing and equipotential bonding. Protective earthing conductors employed shall be greater or equal to the size of the phase conductors, equipotential conductors shall have a minimum cross sectional area of 4mm². The end user shall ensure conductors cannot be readily loosened or twisted. Light metals shall not be used unless special precautions are taken to guard against corrosion.
- 5. Any external power supply used with this equipment must have a rated output of 30 Vdc or less and comply with IEC 60950 series, IEC 62368 series, IEC 61010-1 or a technically equivalent standard.
- External power and signals shall only be supplied according to manufacturers' instructions using suitable cable and suitable <M20x1.5 OR M25x1.5 OR M32x1.5 OR ¹/₂" NPT OR ³/₄" NPT> Ex certified cable glands.
- 7. External power and signals shall only be connected using suitable crimp ferrules to prevent accidental disconnection.
- Unused cable entries shall be sealed using suitable <M20x1.5 OR M25x1.5 OR M32x1.5 OR ½" NPT OR ¾" NPT> Ex certified blanking elements.
- 9. The temperature at the cable entry point may exceed +70°C and is dependent on the operating ambient temperature plus the temperature rise above operating ambient temperature due to the internal power dissipation (Pd) as per the table below. Cables and glands suitable for use at this temperature must be used.

Pd	Temperature rise above operating ambient temperature			
< 1 W	+2 °C			
< 5 W	+6 °C			
< 10 W	+16 °C			

- 10. Use only DURACELL INDUSTRIAL ID1300 or SAFT LS33600 or ANSMANN MAXE D cells.
- 11. As part of the routine maintenance schedule, the condition of the window cement shall be periodically inspected for any degradation or discolouration of the cement that may compromise the explosion protection.
- 12. Sensor face must be positioned close to the pipeline surface and adequately protected from impacts.
- 13. Temperature class is reliant on the operating ambient temperature, internal power dissipation (Pd), and whether internal cells are fitted. Refer to Temperature class and ambient temperature range tables in this annex



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Manufacturer's Documents			
Title:	Drawing No.:	Rev. Level:	Date:
ID5001 ATEX / IECEx Technical File (20 sheets)	ID5001_X001	101	2022-02-07

The technical file contains a full set of detailed drawings, as follows:

ID5001_X002 Safety Instructions (5 sheets)	ID5001_X002	D04	2022-02-02
ID5001_X003 (schematic diagram)	ID5001_X003	E00	2019-04-08
ID5001_X004 (PCB layout)	ID5001_X004	C00	2019-02-13
ID5001 Safety Critical Markings	ID5001_X006	F02	2022-02-07

* Denotes information not provided by manufacturer



Attention is drawn to the operating and installation instructions which may contain useful information in relation to conditions of use.