



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 EXV 24.0022X	Page 1 of 3	Certificate history:
Status:	Current	Issue No: 0	
Date of Issue:	2024-09-25		
Applicant:	Corrosion Radar Future Business Centre Kings Hedges Road Cambridge CB4 2HY United Kingdom		
Equipment:	GEN003-EXI Wireless Node		
Optional accessory:	N/A		
Type of Protection:	Intrinsic Safety		
Marking:	Ex ic [ib Gb] IIB T4 Gc -30°C < Tamb < +60°C		

Approved for issue on behalf of the IECEx
Certification Body:

Sean Clarke CEng MSc FIET

Position:

Certification Manager

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. 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: 2024-09-25

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Manufacturer: **Corrosion Radar**
Future Business Centre
Kings Hedges Road
Cambridge CB4 2HY
United Kingdom

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 60079-11:2011 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/ExTR24.0047/00

Quality Assessment Report:

GB/EXV/QAR24.0009/00



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

GEN003-EXI Wireless Node

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The battery pack can only be replaced by the battery pack SAFT M20 EX SV. Only replace the battery in safe area.
- The USB port can only be used in safe area.
- In extreme conditions, the enclosure can accumulate electrostatic charges that represent a risk of ignition. The enclosure shall not be subjected to any process that could lead to electrostatic charges and the enclosure can only be cleaned with a damp cloth.

Annex:

[EXV 240022X Iss 0.pdf](#)

Description continued:

The GEN003-EXI Wireless Node scans and collects data from Sensor Cables, and transfers this data wirelessly via LoRa transmissions protocol. The sensor cables are two galvanically isolated outputs.

The equipment is housed in an enclosure manufactured by Hawke International model PL612. This enclosure is certified according to the certificates Baseefa06ATEX0116U and IECEx BAS 06.0027U for the marking Ex eb IIC Gb. There is a suitable certified cable gland for connection to the 4-20 mA output.

The electronic system comprises two PCBAs, the Main Control PCB integrating the LoRa wireless communications protocol and the PocketVNA PCB. The equipment includes two outputs for the Sensor Cables (or antennas), one LoRa external antenna and one 4-20 mA Loop output. The system is powered by two Lithium Manganese Dioxide (Li- MnO₂) batteries 2S1P. The Control PCB also includes a Wireless HART port (J6) for future use.

Routine tests:

1. None.

Manufacturer's documents:

Title	Drawing number	Revision	Date
GA Assembly	CR-000547-EX	07	14/06/2024
PVNA PCBA Schematics	CR-000901-EX	4	31/07/2024
Fabrication files pVNA20240325 [3.4.0.12]	CR-000929-EX	5	14/06/2024
Control PCBA BOM	CR-000937-EX	9	13/06/2024
Control PCB	CR-000897-EX	4	13/06/2024
PVNA PCBA ATEX Bill of Materials	CR-000938-EX	5	31/07/2024
Gen3 Exi General Assembly Drawing ATEX Bill of Materials	CR-000979-EX	2	14/06/2024
Control PCB Manufacturing Data	CR-000963-EX	5	10/09/2024
GEN3 Exi ATEX ID Plate	CR-000974-EX	5	09/09/2024
GEN3 Exi WARNING Plate	CR-000975-EX	2	14/06/2024
Gen3 Exi Safety Instructions	CR-000903-EX	4	09/09/2024