

EN

ENGLISH

INFORMATIONS

Document Information	
Title	VOKKERO GUARDIAN EUROPE ATEX
Subtitle	Standard
Document type	Add-on User Guide
Version	Version 1.0.0

This document applies to the following products:

Nom	Référence
VOKKERO GUARDIAN EUROPE ATEX	ARF8158AA

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TECHNICAL SUPPORT

Website

If you have technical problems or cannot find the required information in the provided documents, contact our Technical Support on our website: www.vokkero.com. This ensures that your request will be processed as soon as possible.

Helpful Information when Contacting Technical Support

When contacting Technical Support, please have the following information ready:

- Product type (for example Guardian)
- Firmware version (for example V1.0)
- A clear description of your question or the problem
- A short description of the application

EU Declaration of Conformity



WE

(Interdit de modifier sans l'accord du référent ATEX)

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Declare that the DoC is issued under our sole responsibility and belongs to the following product:

Apparatus model/Product: Vokkero GUARDIAN

Type: ARF8158AA

Object of the declaration:



The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

Directive 2014/53/UE (RED)

Directive 2014/34/UE (ATEX)

The following harmonised standards and technical specifications have been applied:

Title:

Date of standard/specification

EN 300 220-2 V3.1.1	2016/11
EN 300 422-1 V2.1.2	2016/09
EN 303 204-2 V2.1.2	2016/05
EN 60950-1	2006 +A11:2009+A1 :2010+A12 :2011+A2 :2013
EN 301 489-1 V2.1.1	2016/11
EN 301 489-3 V2.1.0	2016/09
EN 301 489-9 V2.1.0	2016/09
EN 50566	2013
EN60079-0	2012+A11:2013
EN60079-11	2012

The Notified Body listed below conducted the conformity assessment procedures ATEX Directive and issued the following certificate:

Produit	Marking	Certificate N°	ON/N°.
Vokkero Guardian ARF8158AA	II 2 G D Ex ib IIC T4 Gb II 2 G D Ex IIIC T135°C Db	LCIE 18 ATEX 3018 X	0081

July, 04th, 2018

Monnet Emmanuel, Certification Manager

ATEX MARKING

ATEX II 2 G D
Ex ib IIC T4 Gb
Ex ib IIIC T135°C Db
-10°C < Ta < +45°C
 $U_o \leq 4.2V$; $I_o \leq 63mA$; $P_o \leq 0.260W$; $C_o \leq 115\mu F$; $L_o \leq 2.25mH$

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WARNINGS

Valid for VOKKERO GUARDIAN EUROPE ATEX: EN 60079-0:2012 ; A11:2013 ; EN 60079-11:2012



Read the instructions in the manual.



The safety of this product is only guaranteed when it is used in accordance with its purpose.
Only use of accessories in accordance with intrinsic safety parameters is permitted. This is under the responsibility of the user.
Similarly, only the Vokkero Guardian charger must be used to recharge Guardian products.
Only use of batteries specified by the manufacturer Vokkero is allowed, reference ARF8125BA.
Maintenance, such as modifying or dismantling the product, should only be carried out by qualified persons.
The ambient temperature range for charging the battery is from 0 to 40 ° C.

Please note: Do not install the equipment close to a heat source or in damp conditions.

Please note: When the equipment is open, do not carry out any operations other than the ones set out in this document.



Please note: Do not open the product as there is a risk of electrical shock.



Please note: For your own safety, you must ensure that the equipment is switched off before carrying out any work on it.



Please note: For your own safety, the power supply circuit must be SELV (Safety Extra Low Voltage) and must be from limited power sources.

The product must be equipped with a switching mechanism so that the power can be cut. This must be close to the equipment. Any electrical connection of the product must be equipped with a protection device against voltage spikes and short-circuits.

ATEX STANDARD

All users of the product VOKKERO GUARDIAN ATEX must be trained in accordance with ATEX standards as defined by EN60079-14.

1. SYSTEM DESCRIPTION

1.1. VOKKERO® Guardian ATEX Terminal

1.1.1. Description of product interface



1.1.2. General characteristics

General Specifications	Value
Supply voltage	3.7V nominal
Maximum consumption	800mA (emission)
Terminal power supply	Lithium battery
ATEX parameters	$U_0 = 4.2V$, $I_0 = 63mA$, $P_0 = 0.260W$, $C_0 = 160\mu F$, $L_0 = 4mH$
Battery life	11 hours (normal usage)
	7 hours (permanent communication)
	If Bluetooth option activated, then 10% drop in battery life
Operating temperature	-20°C / +55°C
Dimensions	110 x 70 x 40mm
Weight	190g (including battery)
Standards	EN 300-220, EN 301-489, EN 60950, EN 62209

2. PAIRING GUARDIAN ATEX WITH GUARDIAN STANDARD OR GUARDIAN PLUS

By default, the GUARDIAN ATEX terminals (ARF8158) embeds a 16Khz audio quality and therefore communicate with terminals having the same configuration (GUARDIAN ATEX or GUARDIAN PLUS ARF8154 / 8156).

GUARDIAN ATEX terminals can also communicate with GUARDIAN Standard (ARF8150 / 8152). A «quick configuration» from the configurator is required to reconfigure all GUARDIAN ATEX terminals in communication with GUARDIAN Standard terminals.

It should be noted that the audio quality of GUARDIAN ATEX terminals changes to Standard quality (8Khz) as soon as they are paired with GUARDIAN Standard terminals.

In the presence of GUARDIAN Standard on the configurator at the time of the «quick configuration», the GUARDIAN ATEX terminals will take the Standard audio mode (8Khz).

Note, it is not possible to pair the three types of terminals at once: GUARDIAN Standard, GUARDIAN PLUS and GUARDIAN ATEX. GUARDIAN Standard and GUARDIAN Plus do not communicate together.

Encryption type: Fixed key or No encryption

If you want to add a GUARDIAN ATEX to an existing conference containing GUARDIAN ATEX and GUARDIAN Standard, it is mandatory to bring back at least one GUARDIAN Standard on the configurator and redo a «quick configuration» with the GUARDIAN ATEX.

If you want to add a GUARDIAN Standard to an existing conference consisting only of GUARDIAN ATEX terminals, it is mandatory to bring back all GUARDIAN ATEX to the configurator and redo a «quick configuration» with the GUARDIAN Standard.

Encryption type: New key at each config.

In any case, it is necessary to bring back all the terminals that you want to pair on the configurator for a new «quick configuration».

DOCUMENT HISTORY

Version	Contenu
V1.0.0	Creation

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