

EX MARKINGS, DECLARATIONS OF CONFORMITY AND CONDITIONS OF USE

ATEX

1701E Latch Hawk® Wireless Sensor



II 3G Ex ic IIB T4 Gc ($-25^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$) Non-Mining products, Group II, Category 3 for use in atmospheres potentially containing gas/vapour/mist, Zone 2, Gas Group IIB, T4

Associated standards

EN IEC 60079-0:2018, EN IEC 60079-11:2012

Clauses considered

All clauses considered

Certificate number (ExVeritas)

18ATEX0397X

1702 Latch Hawk® Wireless Gateway and Concentrator



II 3G Ex nR IIB T3 Gc ($-25^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$) Non-Mining products, Group II, Category 3 for use in atmospheres potentially containing gas/vapour/mist, Zone 2, Gas Group IIB, T3

Associated standards

EN 60079-0:2012+A11:2013, EN 60079-15:2010

Clauses considered

All clauses considered

Certificate number (Ex Veritas)

17ATEX0309X

IECEx

1701E Latch Hawk® Wireless Sensor

Ex ic IIB T4 Gc ($-25^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$) Non-Mining products, Group II, Category 3 for use in atmospheres potentially containing gas/vapour/mist, Zone 2, Gas Group IIB, T4

Associated standards

IEC 60079-0:2017, IEC 60079-11:2011

Clauses considered

All clauses considered

Certificate number

IECEx EXV 18.0022X

1702 Latch Hawk® Wireless Gateway and Concentrator

Ex nR IIB T3 Gc ($-25^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$) Non-Mining products, Group II, Category 3 for use in atmospheres potentially containing gas/vapour/mist, Zone 2, Gas Group IIB, T3

Associated standards

IEC 60079-0:2011, IEC 60079-15:2010

Clauses considered

All clauses considered

Certificate number

IECEx EXV 17.0032X

Latch Hawk® Wireless

In Metro

1701E Latch Hawk® Wireless Sensor (including -TD)

Ex ic IIB T4 Gc ($-25^{\circ}\text{C} \leq T_{\text{amb}} \leq +70^{\circ}\text{C}$) Non-Mining products, Group II, Category 3 for use in atmospheres potentially containing gas/vapour/mist, Zone 2, Gas Group IIB, T4

Associated standards

ABNT NBR IEC 60079-0:2020, ABNT NBR IEC 60079-11:2013

Clauses considered

All clauses considered

Certificate number (CPEX)

22.0244X

1702 Latch Hawk® Wireless Gateway and Concentrator

Ex nR IIB T3 Gc ($-25^{\circ}\text{C} \leq T_{\text{amb}} \leq +60^{\circ}\text{C}$) Non-Mining products, Group II, Category 3 for use in atmospheres potentially containing gas/vapour/mist, Zone 2, Gas Group IIB, T3

Associated standards

ABNT NBR IEC 60079-0:2020 ABNT NBR IEC 60079-15:2019

Clauses considered

All clauses considered

Certificate number (CPEX)

22.0243X

MET and CSA

1701E Latch Hawk® Wireless Sensor



Class 1 Div 2 Groups C, D T4

Class I Zone 2, AEx ic IIB T4 Gc

Ex ic IIB T4 Gc

Associated standards

UL 61010-1 3rd ed., CSA 61010-1 3rd ed.

UL 60079-0 6th ed., CSA C22.2 No. 60079-0

UL 60079-11 6th ed., CSA C22.2 No. 60079-11 2nd ed.

Certification Listing

E115130

Certification Record

108842

Latch Hawk® Gateway 1702-R and Concentrator 1702-C



Class 1 Div 2 Groups C, D T3

Class I Zone 2, AEx nR IIB T3 Gc

Ex nR IIB T3 Gc

IP 66/67

Type 4

Associated standards

UL 62368-1 2nd ed., CSA C22.2 No. 62368-1 2nd ed.

UL 60079-0 6th ed., CSA C22.2 No. 60079-0

UL 60079-15 4th ed., CSA C22.2 No. 60079-15

Certification Listing

E115130

Certification Record

108773

Latch Hawk® Wireless

Technical Data

1701E Latch Hawk® Wireless Sensor

Power	Internal battery with a typical 5-year life at 2,500 latch operations per year
Overvoltage Category	Category I
Housing	PEEK (polyetheretherketone) in Black and Natural. Stainless Steel 316
Mass	90 to 165 grams
Operating Temperature	-20°C to +70°C
Storage Temperature	-20°C to +70°C
Humidity	0 - 100%
Maximum Altitude	1800M – 6000ft
Environmental Sealing	IP66
Environment	Suitable for outdoor use Pollution Degree 4; Latch Hawk® Wireless PEEK housing resistant to drilling fluids, brines.

Sensor Secondary Retention

By means of proprietary locking mechanism on retaining nut.
Optionally retaining wire may be threaded through eyelets on the Latch Hawk® device and secured to the latch assembly.

Latch Hawk® Wireless

1702-C Latch Hawk® Wireless Gateway 1702-C and Concentrator 1702-R

Power Gateway	Internal battery with a typical 5-year life.
Power Concentrator	Power over ethernet – 30 W injector (fuse limited to less than 15W)
Overvoltage Category	Category I
Housing:	Hawke PL626 GRP enclosure – see below
Mass Gateway	2 Kg
Mass Concentrator	1.5 Kg
Operating Temperature	-20°C to +70°C
Storage Temperature	-20°C to +70°C
Humidity	0 - 100%
Maximum Altitude	1800M – 6000ft
Environmental Sealing	IP66,67
Environment	Suitable for outdoor use Pollution Degree 4, housings resistant to drilling fluids, brines.

Hawke PL626 GRP Enclosure - Technical data

- Increased Safety ⚡ II 2 GD Exe II ExtD.
- PL626 Certificate No's: Baseefa06ATEX0117X and IECEx BAS 06.0028X.
- ZPL626 Certificate No's: Baseefa06ATEX0116U and IECEx BAS 06.0027U.
- Suitable for use in Zone 1, Zone 2, Zone 21 and Zone 22.
- Construction and Test Standards: IEC/EN 60079-0, IEC/EN 60079-7, IEC/EN 61241-0 and IEC/EN 61241-1.
- Ingress Protection: IP66 and IP67 to IEC/EN 60529.
- Deluge Protection to DTS01.
- Operating Temperature Range: -60°C to +75°C.

Latch Hawk® Wireless

Hawk Maintenance Station

Power	USB – 5V DC
Housing	ABS-like Urethane resin (moulded plastic)
Mass	0.3 Kg
Operating Temperature	0°C to +45°C
Storage Temperature	0°C to +45°C
Humidity	0 - 55%
Maximum Altitude	1800M – 6000ft
Environmental Sealing	IP20
Environment	Suitable for indoor use only

USA (FCC) regulatory statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by Salunda Ltd. could void the user's authority to operate the equipment.

FCC IDs

Product	FCC ID
1702-C / 1701-R	2ALTW1702
1701E	2ALTW1701
1701E 1.6	2ALTW170116
1701E 2.0	2ALTW170120
1701E 2.0-20	2ALTW17012020
1701E PS	2ALTW1701PS
Hawk Maintenance Station	2ALTW1701HMS

Radiation Exposure statement

This equipment should be installed and operated with a minimum distance of 20cm between the device and users.

Restrictions – Conitions of use

Maintenance



Caution: The 1701E Latch Hawk® Wireless Sensor has a reduced rated energy level of 1 J for protection against mechanical stresses, it is intended to be used in applications where it cannot be easily touched by unauthorized persons or the general public. Wear protective gloves to install and remove devices.



The Latch Hawk® Wireless Sensor is a sealed non-maintainable unit containing a battery designed to last the life of the equipment, no attempt should be made to break the seals, interfere with the device or replace the battery. Units should be replaced and the expired / defective unit disposed of with regard to local regulations for disposing of electronic equipment containing lithium batteries or returned to the manufacturer at the end of life.



The Latch Hawk® Gateway and Concentrator devices (1702-C and 1701-R) are non-maintainable units. The Gateway contains Lithium batteries designed to last the life of the equipment and non replaceable fuses, no attempt should be made to break the seals, interfere with the device or replace the battery or fuses. Units should be replaced and the expired / defective unit disposed of with regard to local regulations for disposing of electronic equipment containing lithium batteries or returned to the manufacturer at the end of life.

Radio Silence Support



The Salunda Latch Hawk® Wireless System is designed to support radio silence. All parts of the system will not transmit if the HMI application is not running or the SBC is turned off. The user is asked to confirm radio system start-up each time the HMI application is started, so that the system does not automatically re-enable the radio after a power outage. This is to ensure the system does not automatically reactivate during radio silence. Once enabled, the radio system restarts and all nodes transmit on a regular basis.

DRAFT

Latch Hawk® Wireless

EU Declaration of Conformity in accordance with ATEX Directive 2014/34/EU

Product Model: 1701E Latch Hawk® Wireless Sensor
Description: Wireless sensor that monitors fingerboard latch status
Manufacturer: Salunda Limited
Address: Unit 6, Avonbury Business Park, Howes Lane, Bicester, OX26 2UA,
United Kingdom

This declaration is issued at the sole responsibility of the manufacturer.

Directive 2014/53/EU Radio Equipment Directive
Associated Standards: EN 300 328v2.2.2

Directive 2014/30/EU EMC Directive
Associated Standards: EN 301 489-1v2.2.3 EN301 489-3v3.2.4 EN301 489-17v3.2.0

Directive 2014/35/EU Low Voltage Directive
Associated Standards: EN 61010-1:2010

Directive 2014/90/EU Marine Equipment Directive
Associated Standards: EN 60945:2002

Directive 2012/19/EU Waste Electronic Equipment
Directive 2011/65/EU RoHS

ATEX Directive 2014/34/EU
Provisions of the directive fulfilled by the equipment:
Group II Category 3 G Ex ic IIB T4 Gc

Notified Body for EU-Type Examination:
ExVeritas 2804

EU-type Examination Certificates:
ExVeritas 18ATEX0397X

Notified Body for Production
Exveritas 2804

Harmonised Standards Used:
EN 60079-11:2012

Other Standards and Specifications Used:
EN 60079-0:2018

On behalf of Salunda Limited, I declare that that the equipment listed above and accompanied by this declaration conforms with all technical and regulatory requirements of the directives and marking listed above on the date it is put on the market.

Signed for and on behalf of Salunda Limited, Bicester UK

Grant Nicholls, Engineering Director

October 13th, 2023

Latch Hawk® Wireless

UK Declaration of Conformity

Product Model: 1701E Latch Hawk® Wireless Sensor
Description: Wireless sensor that monitors fingerboard latch status
Manufacturer: Salunda Limited
Address: Unit 6, Avonbury Business Park, Howes Lane, Bicester, OX26 2UA,
United Kingdom

This declaration is issued at the sole responsibility of the manufacturer.

Radio Equipment Regulations 2017 (S.I. 2017/1206)

Associated Standards: EN 300 328v2.2.2

Electromagnetic Compatibility Regulations 2016 (S.I. 2016/1091)

Associated Standards: EN 301 489-1v2.2.3 EN301 489-3v3.2.4 EN301 489-17v3.2.0

Electrical Equipment (Safety) Regulations 2016 (S.I. 2016/1101)

Associated Standards: EN 61010-1:2010

Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (S.I. 2012/3032)

Associated Standards: EN IEC 63000:2018

The Merchant Shipping (Marine Equipment) Regulations 2016 (S.I. 2016 :1025)

Associated Standards: EN 60945:2002

Equipment and Protective Systems Intended for use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended by UKSI 2019:696)

Standards and Specifications Used:

EN IEC 60079-0:2018, EN IEC 60079-11:2012

Provision fulfilled by the equipment:

Group II Category 3 G Ex ic IIB T4 Gc

Approved Body for UK-Type Examination:

ExVeritas 2585

UK-type Examination Certificates:

ExVeritas 22UKEX1387X

Approved Body for Production

Exveritas 2585

On behalf of Salunda Limited, I declare that that the equipment listed above and accompanied by this declaration conforms with all technical and regulatory requirements of the directives and marking listed above on the date it is put on the market.

Signed for and on behalf of Salunda Limited, Bicester UK

Grant Nicholls, Engineering Director

October 13th, 2023

EU Declaration of Conformity in accordance with ATEX Directive 2014/34/EU

Product Model: 1702 Latch Hawk® Wireless Gateway & Concentrator
Description: Wireless router forming part of a fingerboard monitoring system monitoring fingerboard latch status
Manufacturer: Salunda Limited
Address: Unit 6, Avonbury Business Park, Howes Lane, Bicester, OX26 2UA, United Kingdom

This declaration is issued at the sole responsibility of the manufacturer.

Directive 2014/53/EU Radio Equipment Directive

Associated Standards: EN 300 328v2.1.1

Directive 2014/30/EU EMC Directive

Associated Standards: EN 301 489-17v3.2.0

Directive 2014/35/EU Low Voltage Directive

Associated Standards: EN 61010-1:2010

**Directive 2012/19/EU Waste Electronic Equipment
Directive 2011/65/EU RoHS**

ATEX Directive 2014/34/EU

Provisions of the directive fulfilled by the equipment:

Group II Category 3 G Ex nR IIB T4 Gc

Notified Body for Eu-Type Examination:

ExVeritas 2804

EU-type Examination Certificates:

ExVeritas 17ATEX0309X

Notified Body for Production

Exveritas 2804

Harmonised Standards Used:

EN 60079-15:2010

Other Standards and Specifications Used:

EN 60079-0:2012+A11:2013

On behalf of Salunda Limited, I declare that that the equipment listed above and accompanied by this declaration conforms with all technical and regulatory requirements of the directives and marking listed above on the date it is put on the market.

Signed for and on behalf of Salunda Limited, Bicester UK

Grant Nicholls, Engineering Director

October 13th, 2023

Latch Hawk® Wireless

UK Declaration of Conformity

Product Model: 1702 Latch Hawk® Wireless Gateway & Concentrator
Description: Wireless router forming part of a fingerboard monitoring system monitoring fingerboard latch status
Manufacturer: Salunda Limited
Address: Unit 6, Avonbury Business Park, Howes Lane, Bicester, OX26 2UA, United Kingdom

This declaration is issued at the sole responsibility of the manufacturer.

Radio Equipment Regulations 2017 (S.I. 2017/1206)

Associated Standards: EN 300 328v2.1.1

Electromagnetic Compatibility Regulations 2016 (S.I. 2016/1091)

Associated Standards: EN 301 489-17v3.2.0

Electrical Equipment (Safety) Regulations 2016 (S.I. 2016/1101)

Associated Standards: EN 61010-1:2010

Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (S.I. 2012/3032)

Associated Standards: EN IEC 63000:2018

Equipment and Protective Systems Intended for use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended by UKSI 2019:696)

Standards and Specifications Used:

EN IEC 60079-0:2018, EN 60079-15:2010

Provision fulfilled by the equipment:

Group II Category 3 G Ex nR IIB T4 Gc

Approved Body for UK-Type Examination:

ExVeritas 2585

UK-type Examination Certificates:

ExVeritas 17ATEX0309X

Approved Body for Production

Exveritas 2585

On behalf of Salunda Limited, I declare that that the equipment listed above and accompanied by this declaration conforms with all technical and regulatory requirements of the directives and marking listed above on the date it is put on the market.

Signed for and on behalf of Salunda Limited, Bicester UK

Grant Nicholls, Engineering Director

October 13th, 2023

EU Declaration of Conformity in accordance with ATEX Directive 2014/34/EU

Product Model: Hawk Maintenance Station
Description: NFC read/write USB connected computer peripheral, for communication with Salunda Latch Hawk® and Crew Hawk® products
Manufacturer: Salunda Limited
Address: Unit 6, Avonbury Business Park, Howes Lane, Bicester, OX26 2UA, United Kingdom

This declaration is issued at the sole responsibility of the manufacturer.

Directive 2014/30/EU EMC Directive

Associated Standards: EN 300 330v2.1.1 EN301 489-3v2.1.1

Directive 2014/35/EU Low Voltage Directive

Associated Standards: EN 61010-1:2010

Directive 2012/19/EU Waste Electronic Equipment

Directive 2011/65/EU RoHS

On behalf of Salunda Limited, I declare that that the equipment listed above and accompanied by this declaration conforms with all technical and regulatory requirements of the directives and marking listed above on the date it is put on the market.

Signed for and on behalf of Salunda Limited, Bicester UK

Grant Nicholls, Engineering Director

October 13th, 2023

UK Declaration of Conformity

Product Model: Hawk Maintenance Station
Description: NFC read/write USB connected computer peripheral, for communication with Salunda Latch Hawk® and Crew Hawk® products
Manufacturer: Salunda Limited
Address: Unit 6, Avonbury Business Park, Howes Lane, Bicester, OX26 2UA, United Kingdom

This declaration is issued at the sole responsibility of the manufacturer.

[Electromagnetic Compatibility Regulations 2016 \(S.I. 2016/1091\)](#)

[Associated Standards:](#) EN 300 330v2.1.1 EN301 489-3v2.1.1

[Electrical Equipment \(Safety\) Regulations 2016 \(S.I. 2016/1101\)](#)

[Associated Standards:](#) EN 61010-1:2010

[Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 \(S.I. 2012/3032\)](#)

[Associated Standards:](#) EN IEC 63000:2018

On behalf of Salunda Limited, I declare that that the equipment listed above and accompanied by this declaration conforms with all technical and regulatory requirements of the directives and marking listed above on the date it is put on the market.

Signed for and on behalf of Salunda Limited, Bicester UK

Grant Nicholls, Engineering Director

October 13th, 2023