

Exposure Calculation Report

Paxton Access Limited
Paxlock Pro 2 – Latch Galaxy, Model: 900-710



In accordance with ISED RSS-102

Prepared for: Paxton House Home Farm Road
Brighton
BN1 9HU
United Kingdom

IC ID: 10217A-900710

COMMERCIAL-IN-CONFIDENCE

Document 75966453-12 Issue 02

SIGNATURE

NAME

Steve Marshall

RESPONSIBLE FOR

Senior Engineer

Authorised Signatory

10 August 2026

Signatures in this approval box have checked this document in line with the requirements of TÜV SÜD document control rules.

ISED Accreditation

12669A Octagon House, Fareham Test Laboratory

EXECUTIVE SUMMARY

The calculation of output power for this product was found to be exempt from routine evaluation at a distance of 3mm with ISED RSS-102 Issue 6 assuming continuous exposure of 6 minutes or more and instantaneous Nerve Stimulation effects. If alternative antennas are used with greater gains, the distance must be recalculated.



DISCLAIMER AND COPYRIGHT

This non-binding report has been prepared by TÜV SÜD with all reasonable skill and care. The document is confidential to the potential Client and TÜV SÜD. No part of this document may be reproduced without the prior written approval of TÜV SÜD. © 2026 TÜV SÜD. This report relates only to the actual item/items tested.

ACCREDITATION

Our UKAS Accreditation does not cover opinions and interpretations and any expressed are outside the scope of our UKAS Accreditation. Results of tests not covered by our UKAS Accreditation Schedule are marked NUA (Not UKAS Accredited). Results of tests covered by our Flexible UKAS Accreditation Schedule are marked FS (Flexible Scope).

TÜV SÜD
is a trading name of TÜV SÜD Ltd
Registered in Scotland at East Kilbride,
Glasgow G75 0AF, United Kingdom
Registered number: SC215164

TÜV SÜD Ltd is a
TÜV SÜD Group Company

Phone: +44 (0) 1489 558100
Fax: +44 (0) 1489 558101
www.tuvsud.com/en

TÜV SÜD
Octagon House
Concorde Way
Fareham
Hampshire PO15 5RL
United Kingdom



Contents

- 1 Report Summary2**
- 1.1 Report Modification Record.....2
- 1.2 Introduction.....2
- 1.3 Brief Summary of Results3
- 1.4 Manufacturer's Declared Variants4
- 1.5 Product Information5
- 1.6 Test Location7
- 2 Assessment Details8**
- 2.1 Configuration - Single Transmitter < 10 MHz - Separation Distance of 3 mm8



1 Report Summary

1.1 Report Modification Record

Alterations and additions to this report will be issued to the holders of each copy in the form of a complete document.

Issue	Description of Change	Date of Issue
01	First Issue	03-Aug-2026
02	Updated Introduction (1.2) in Report Summary	10-Aug-2026

Table 1

1.2 Introduction

Applicant	Paxton Access Ltd
Manufacturer	Paxton Access Ltd
Model Number(s)	900-710
Hardware Version Identification Number (HVIN)	900-710
Hardware Version(s)	z-lm02 & z-lmb1 – ppc-lm02 & ppc-lmb1
Firmware Version Identification Number (FVIN)	3.45
Specification/Issue/Date	RSS-102 Issue 6 Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)
Order Number	237192
Date	21-November-2025
Related Document(s)	- Health Canada Safety Code 6: 2015 - IEEE C95.3:2021 IEEE Recommended Practice for Measurements and Computations of Electric, Magnetic, and Electromagnetic Fields with Respect to Human Exposure to Such Fields, 0 Hz to 300 GHz - Document 75966453-07



1.3 Brief Summary of Results

The wireless device described within this report was compliant with ISED RSS-102 Issue 6: Exemption Limits for Routine Evaluation - NS Evaluation (RSS-102 Section 6.2, Table 10) Evidence of compliance to Exemption Limits for Routine Evaluation - SAR Evaluation (RSS-102 Section 6.3, Table 11) for a separation distance of ≤ 5 mm can be found in Document 75966453-07.

The calculations shown in this report were made in accordance with the procedures specified in the applied test specification(s).



1.4 Manufacturer's Declared Variants

All the variants have identically the same electrical & electronic design, housed within all the products. The only variations between them, as will be explained below, is the handle shape and length of deadlatch. These minor changes will have no effect on Radio or EMC performance.

There are two main variants of the “**Paxlock Pro 2**” the “**Paxlock Pro 2 Latch**” and “**Paxlock Pro 2 Mortice**”.

The latch uses a Cylindrical Cartridge with a 60mm or 70mm backset deadlatch. The Mortice variant encompasses a Morice lock with a mortice key cylinder.

With each of the two variants we produce the products with two types of handle version, the “SQUARE” and “ROUNDED”, these are called **Galaxy** and **Eclipse**. So, we have two variants of each of the Latch and Mortice handles.

We also produce two backset lengths of the “Paxlock pro 2 Latch” as described earlier, the 60mm and 70mm. Hence, therefore we have four sales codes for the “Paxlock pro 2 Latch” as we have two backset's and the two handle types.

The mortice has only the one lock type with the two handles variants, hence the “Paxlock pro 2 Mortice” has two sales codes.

The sales codes for the various variants are shown below.

SALES CODES	Description
900-710	Paxlock Pro 2 - Latch (2-3/8” backset) Galaxy
900-715	Paxlock Pro 2 - Latch (2-3/8” backset) Eclipse
900-720	Paxlock Pro 2 - Latch (2-3/4” backset) Galaxy
900-725	Paxlock Pro 2 - Latch (2-3/4” backset) Eclipse
900-730	Paxlock Pro 2 - Mortice Galaxy
900-735	Paxlock Pro 2 - Mortice Eclipse

All the variants have exactly the same design of electronics housed within all the products, the only variations between them, as has been explained above, is the handle type and length of deadlatch, which has no effect on EMC or Radio testing.



1.5 Product Information

1.5.1 Technical Description

The Paxlock is the battery powered smart electronic lock providing both access control and reader functions. The unit combines a 125kHz and 13.56 MHz proximity reader, a wireless bluetooth & Zigbee interface both 2.4GHz and a locking mechanism.

PaxLock is a complete standalone system, there's nothing to wire together and no mains connection is required. The unit is powered by four replaceable AA batteries.

The purpose of the equipment is to receive validated user input via a radio signal from a passive proximity token (card or keyfob) and then provide a digital output to the internal locking mechanism for access control. An event of this process is then transmitted to the PC through the wireless interface and stored as an archive. User's access rights are configured at the PC and the PaxLock unit is then updated as required using the same wireless method.

1.5.2 Transmitter Description

The following radio access technologies and frequency bands are supported by the equipment under test.

Radio Access Technology	Frequency (MHz)	RMS Current (A)	Field Strength Measurement (dBuV/m or dBuA/m) OR Conducted Output Power (dBm)	Field Strength Measurement Distance (cm) (N/A if Conducted Output Power)
RFID 125kHz	0.125	0.055	15.10 dBm	N/A

Table 2 - Transmitter Description

1.5.3 Antenna Description

The following antennas are supported by the equipment under test.

Radio Access Technology	Antenna Model/Description	Number of Turns (N)	Antenna length* (cm)
RFID 125kHz	Wire wound former	150	2.3 cm

Table 3 - Antenna Description

In the case of more than one type of antenna being supported by the equipment, the calculation is based on the maximum of the antenna gains. If other antennas can be used that have greater gains, the minimum separation distances will need to be recalculated.



Equipment Configuration

The device supports the following modes:-

The device only contains a single transmitter below 10 MHz.

- RFID 125kHz



1.6 Test Location

TÜV SÜD conducted the following tests at our Octagon House Test Laboratory.

Test Name	Name of Engineer(s)	Accreditation
RF Exposure Assessment	Joshua Peploe-Williams	UKAS

Table 4

Laboratory Address: TÜV SÜD, Octagon House,
Concorde Way, Fareham, Hampshire,
PO15 5RL, United Kingdom



2 Assessment Details

2.1 Configuration - Single Transmitter < 10 MHz - Separation Distance of 3 mm

The RF exposure evaluation exemption is determined by comparison of the maximum ampere-turns ($A \times \text{turns}$) to the requirements given in RSS-102 clause 6.2.2.1.

Frequency (kHz)	Current (A)	Turns (N)	Separation distance (mm)	Maximum Ampere-turns	Exemption Limit (Ampere-turns)	Nerve Stimulation Exemption Evaluation? (Yes/No)
125	0.055	150	3	8.25	9.40	Yes

Table 5 – NS Evaluation