

# SAR EXEMPTION REPORT

Manufacturer: Deister Electronic GmbH

11 Hermann Bahlsen Str Barsinghausen D-30890

**GERMANY** 

Applicant: Deister Electronics USA, Inc.

8576 Wellington Road

Manassas, Virginia 20109 USA

Product Name: Deister Electronics Wireless Door Lock Controller

**Product Description:** Device connects either wired or wirelessly to a Physical Access

Control System and provides full function Door Control and

Status Monitoring

Model: WCU2

FCC ID: IXLWCU2

# Standard(s):

KDB447498 D04 Interim General RF Exposure Guidance v01

film Chilled

• FCC Rule Part 1.1307(b)(3)(i)(a)

**Report Constructed by:** 

Julius Chiller, Senior Wireless Project Engineer

Report Reviewed by:

Ken Littell, Vice President of Operations

F2 Labs F2 Labs

 26501 Ridge Road
 16740 Peters Road
 8583 Zionsville Road

 Damascus, MD 20872
 Middlefield, OH 44062
 Indianapolis, IN 46268

 Ph 301.253.4500
 Ph 440.632.5541
 Ph 317.610.0611

This test report may be reproduced in full; partial reproduction only may be made with the written consent of F2 Labs. The results in this report apply only to the equipment tested.

083118

Report Number: F2P29127-03E Page 1 of 6 Issue Date: 2023-05-25

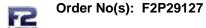


Order No(s): F2P29127

# **TABLE OF CONTENTS**

1	ADMINISTRATIVE INFORMATION
2	SUMMARY OF TEST RESULTS/MODIFICATIONS
3	ENGINEERING STATEMENT
4	EUT INFORMATION AND DATA

Report Number: F2P29127-03E Page 2 of 6 Issue Date: 2023-05-25



Applicant: Deister Electronics USA, Inc. Model: WCU2

# **ADMINISTRATIVE INFORMATION**

#### 1.1 **Measurement Location:**

F2 Labs in Middlefield, Ohio. Site description and attenuation data are on file with the FCC's Sampling and Measurement Branch at the FCC Laboratory in Columbia, MD.

## 1.2 **Document History**

Document Number	Description	Issue Date	Approved By
F2P29127-03E	First Issue	2023-05-25	K. Littell

Report Number: F2P29127-03E Page 3 of 6 Issue Date: 2023-05-25



Order No(s): F2P29127 Applicant: Deister Electronics USA, Inc. Model: WCU2

## **SUMMARY OF RESULTS** 2

	Standard(s)	Results
SAR Exemption	- KDB447498 D04 Interim General RF Exposure Guidance v01 - FCC Rule Part 1.1307(b)(3)(i)(a)	Complies

Modifications Made to the Equipment	
None	

Page 4 of 6 Report Number: F2P29127-03E Issue Date: 2023-05-25

Applicant: Deister Electronics USA, Inc. Order No(s): F2P29127

Model: WCU2

#### 3 **ENGINEERING STATEMENT**

This report has been prepared on behalf of Deister Electronics USA, Inc., to provide documentation for the SAR Exemption herein. This equipment has been tested and found to comply with the SAR Exemption levels listed in FCC Rule Part 1.1307(b)(3)(i)(a).

- (3) Determination of exemption.
- (i) For single RF sources (i.e., any single fixed RF source, mobile device, or portable device, as defined in paragraph (b)(2) of this section): A single RF source is exempt if:
  - (A) The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);"

The minimum distance from the antenna used inside of the WCU2 RFID Reader, is 5mm. The maximum Field Strength of the transmitter was 34.25dBµV/m at 3m which converts to -72.75 dBm, or 0.00005µW, which is well below the exemption limit of 1mW.

Report Number: F2P29127-03E Page 5 of 6 Issue Date: 2023-05-25

Applicant: Deister Electronics USA, Inc. Order No(s): F2P29127

Model: WCU2

#### 4 **EUT INFORMATION AND DATA**

## 4.1 **Equipment Under Test:**

Product: **RFID Reader** 

Model: WCU2 Serial No.: 32584

Firmware: Version L99\_1.72 Hardware: Version S-8581

FCC ID: IXLWCU2

#### 4.2 **Trade Name:**

Deister Electronics USA, Inc.

## **Power Supply:** 4.3

24VDC

#### 4.4 **Applicable Rules:**

KDB447498

#### 4.5 Antenna:

Integral

#### 4.6 **Accessories:**

Device	Manufacturer	Model Number	Serial Number
Power Supply	BK Precision	1685B	346f17303*

<sup>\*</sup>Indicates F2 Labs-supplied equipment.

Report Number: F2P29127-03E Page 6 of 6 Issue Date: 2023-05-25