

RE051-20-103141-3-A Ed. 0

MPE test report

According to the standard: CFR 47 FCC PART 15

Equipment under test: XGCS491B201 RFID compact station

FCC ID: Y7HXGCS4D

Company: SCHNEIDER ELECTRIC INDUSTRIES

Distribution: Mr CORAZZA (Company: Schneider Electric Industries)

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This document is the result of testing a specimen or a sample of the product submitted. It does not imply an assessment of the conformity of the whole manufactured products of the tested sample.





WRITTEN BY:

DESIGNATION OF PRODUCT: XGCS491B201 RFID compact station Serial number (S/N): Without Reference / model (P/N): XGCS491B201 Software version: 1.2 **MANUFACTURER:** SCHNEIDER ELECTRIC INDUSTRIES **COMPANY SUBMITTING THE PRODUCT:** SCHNEIDER ELECTRIC INDUSTRIES Company: Address: **BLD SALVADOR ALLENDE** ZONE INDUSTRIELLE N°3 BP660 16340 L'ISLE D' ESPAGNAC FRANCE Responsible: Mr CORAZZA Person present during the tests: Mr LAVIGNE (the first day) DATE(S) OF TEST: From 7-Oct-20 to 9-Oct-20 **TESTING LOCATION:** EMITECH ANGERS laboratory at JUIGNE SUR LOIRE (49) FRANCE FCC Accredited under US-EU MRA Designation Number: FR0009 Test Firm Registration Number: 873677 **TESTED BY:** S. LOUIS VISA:

S. LOUIS



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1. INTRODUCTION

This report presents the results of radio test carried out on the following radio equipment: **XGCS491B201 RFID compact station**, in accordance with normative reference.

The device under test integrates a RFID Radio part.

2. PRODUCT DESCRIPTION

Class: B

Utilization: Tag and barcode reader

Antenna type and gain: integrated antenna, 0dBi

Operating frequency band: From 13.110 MHz to 14.010 MHz

Channel spacing: Not concerned

Modulation: ASK

Power source: 24Vdc

Power level, frequency range and channels characteristics are not user adjustable.

The details pictures of the product and the circuit boards are joined with this file.



3. NORMATIVE REFERENCE

The standards and testing methods related throughout this report are those listed below.

They are applied on the whole test report even though the extensions (version, date and amendment) are not repeated.

CFR 47 (2020) Radio Frequency Devices

ANSI C63.10 2013

Procedures for ComplianceTesting of Unlicensed Wireless Devices.

447498 D01 General RF

RF Exposure procedures and equipment authorization policies for mobile and

Exposure Guidance v06 porta

portable equipment

OET BULLETIN 65 Evaluating Compliance with FCC Guidelines for Human Exposure to

Radiofrequency Electromagnetic Fields

4. RF EXPOSURE

<u>MPE</u>

Maximum measured power = $40.07 \text{ dB}\mu\text{V/m} = 0.0000339 \text{ mW}$ at 13.56 MHz with $P = (E \times d)^2 / (30 \times Gp)$ with d = 10 m and Gp = 1

In accordance with KDB 447498 D01 General RF Exposure Guidance v06:

PSD= EIRP/ $(4*\pi*R^2)$

 \Rightarrow 0.0000339/(4* π *(20 cm)²)= **0.00000000776 mW/cm**² (limit = **0.978 mW/cm**²)

The equipment fulfils the requirements on power density for general population/uncontrolled exposure and therefore fulfils the requirements of 47 CFR §1.1310.