



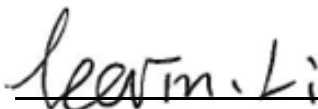
# FCC RF EXPOSURE REPORT

|            |   |                                                                                   |
|------------|---|-----------------------------------------------------------------------------------|
| Applicant  | : | Prowise B.V.                                                                      |
| Address    | : | Luchthavenweg 1b, 6021 PX Budel, The Netherlands                                  |
| Equipment  | : | PROWISE TOUCHSCREEN TEN G3                                                        |
| Model No.  | : | PW.1.17075.0003, PW.1.17075.**** (*=0-9)                                          |
| Trade Name | : |  |
| FCC ID.    | : | 2AGUS-11707503                                                                    |

## I HEREBY CERTIFY THAT:

The sample was received on Nov. 29, 2023 and the testing was completed on Dec. 26, 2023 at CerpPASS Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of CerpPASS Technology Corp., the test report shall not be reproduced except in full.

Approved by:

  
\_\_\_\_\_  
Leevin Li / Supervisor



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### History of this test report

| Version No. | Report No   | Date          | Description   |
|-------------|-------------|---------------|---------------|
| Rev.01      | DEFJ2311138 | Jan. 02, 2024 | Initial Issue |



## 1. Test Configuration of Equipment under Test

### 1.1 Feature of Equipment

|                   |                                                                                                                                            |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Equipment         | PROWISE TOUCHSCREEN TEN G3                                                                                                                 |
| Model Name        | PW.1.17075.0003, PW.1.17075.**** (*=0-9)                                                                                                   |
| Model Discrepancy | All models are identical except for model designation and appearance color.<br>Model PW.1.17075.0003 is the representative for final test. |
| Frequency Range   | 13.56MHz                                                                                                                                   |
| Modulation Type   | ASK                                                                                                                                        |
| Antenna Type      | Loop Antenna                                                                                                                               |
| EUT Power Rating: | Input:100-240VAC, 50/60Hz, 8A                                                                                                              |

Note: For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



## 1.2 General Information of Test

|                               |                                                                                                                                                                                                           |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Site                     | <b>Cerpass Technology Corporation(Cerpass Laboratory)</b><br>Address: Room 102, No. 5, Xing'an Road, Chang'an Town, Dongguan City, Guangdong Province<br>Tel: +86-769-8547-1212<br>Fax: +86-769-8547-1912 |
| FCC Designation No.:          | CN1288                                                                                                                                                                                                    |
| Frequency Range Investigated: | Conducted: from 150kHz to 30 MHz<br>Radiation: from 30 MHz to 40,000MHz                                                                                                                                   |
| Test Distance:                | The test distance of radiated emission from antenna to EUT is 3 M.                                                                                                                                        |



## 2. Radio Frequency Exposure

### 2.1 Reference

According to §1.1307(b), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to §1.1310 and §2.1091 RF exposure is calculated.

### 2.2 RF Exposure Limit

Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

| Frequency range (MHz)                                                      | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm <sup>2</sup> ) | Averaging time (minutes) |
|----------------------------------------------------------------------------|-------------------------------|-------------------------------|-------------------------------------|--------------------------|
| <b>(i) Limits for Occupational/Controlled Exposure</b>                     |                               |                               |                                     |                          |
| 0.3–3.0                                                                    | 614                           | 1.63                          | *(100)                              | ≤6                       |
| 3.0–30                                                                     | 1842/f                        | 4.89/f                        | *(900/f <sup>2</sup> )              | <6                       |
| 30–300                                                                     | 61.4                          | 0.163                         | 1.0                                 | <6                       |
| 300–1,500                                                                  | -                             | -                             | f/300                               | <6                       |
| 1,500–100,000                                                              | -                             | -                             | 5                                   | <6                       |
| <b>(ii) Limits for General Population/Uncontrolled Exposure</b>            |                               |                               |                                     |                          |
| 0.3–1.34                                                                   | 614                           | 1.63                          | *(100)                              | <30                      |
| 1.34–30                                                                    | 824/f                         | 2.19/f                        | *(180/f <sup>2</sup> )              | <30                      |
| 30–300                                                                     | 27.5                          | 0.073                         | 0.2                                 | <30                      |
| 300–1,500                                                                  | -                             | -                             | f/1500                              | <30                      |
| 1,500–100,000                                                              | -                             | -                             | 1.0                                 | <30                      |
| Note:<br>f = frequency in MHz.<br>* = Plane-wave equivalent power density. |                               |                               |                                     |                          |



## 2.3 MPE Calculation Method

### Calculation

Given  $E = \frac{\sqrt{30 \times P \times G}}{d}$  &  $S = \frac{E^2}{3770}$

Where  $E$  = Field strength in Volts / meter  
 $P$  = Power in Watts  
 $G$  = Numeric antenna gain  
 $d$  = Distance in meters  
 $S$  = Power density in milliwatts / square centimeter

Combining equations and re-arranging the terms to express the distance as a function of the remaining variables yields:

$$S = \frac{30 \times P \times G}{3770d^2}$$

Changing to units of mW and cm, using:

$$P \text{ (mW)} = P \text{ (W)} / 1000 \text{ and}$$
$$d \text{ (cm)} = d \text{ (m)} / 100$$

Yields

$$S = \frac{30 \times (P/1000) \times G}{3770 \times (d/100)^2} = 0.0796 \times \frac{P \times G}{d^2} \quad \text{Equation 1}$$

From the EUT RF output power, the minimum mobile separation distance,  $d$ -0.2m, as well as the gain of the used antenna, the RF power density can be obtained.



## 2.4 RF Exposure Evaluation Results

### WLAN

| Operation Mode | Frequency band (MHz) | Max. Average Power (mW) | Antenna Gain (dBi) | Distance (cm) | Power density (mW/cm <sup>2</sup> ) | Limit (mW/cm <sup>2</sup> ) |
|----------------|----------------------|-------------------------|--------------------|---------------|-------------------------------------|-----------------------------|
| WLAN NII-3     | 5745-5825            | 348                     | 8.01               | 20            | 0.43783                             | 1                           |

### NFC

| Operation Mode | Frequency (MHz) | Fundamental Emission (dBuV/m) | Fundamental Emission (V/m) | Limit (V/m) |
|----------------|-----------------|-------------------------------|----------------------------|-------------|
| NFC            | 13.56           | 63.92                         | 0.00157                    | 60.77       |

### Maximum Permissible Exposure (Co-location)

| Operation Mode                     | Frequency (MHz) | Maximum Ratio |
|------------------------------------|-----------------|---------------|
| NFC                                | 13.56           | 0.00003       |
| WLAN                               | 5745-5825       | 0.43783       |
| Co-location Total                  |                 | 0.43786       |
| Maximum Permissible Exposure Limit |                 | 1             |

### Conclusion

For the max result:  $0.43786 \leq 1.0$  for Max Power Density, compliance RF exposure.

-----THE END OF REPORT-----