# EMF TEST REPORT

## For CE-RED

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|---|---|---|
| **Report No.** | : | SSP25120173-4H |
| **Applicant** | : | Zendure USA Inc. |
| **Product Name** | : | Zendure Smart Meter 3CT-S and Zendure Smart Meter 1CT-S |
| **Model Name** | : | ZDC2503 |
| **Test Standard** | : | EN 50665:2017 |
| **Date of Issue** | : | 2026-03-04 |

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This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen CCUT Quality Technology Co., Ltd.

## Test Report Basic Information

| | |
|---|---|
| **Applicant**.....: | Zendure USA Inc. |
| Address of Applicant.....: | 1765 E BAYSHORE RD # 201 EAST PALO ALTO, CA 94303-5501 |
| **Manufacturer**.....: | ZENDURE TECHNOLOGY CO., LIMITED |
| Address of Manufacturer.....: | RM 77A 2/F BLK F TUEN MUN INDUSTRIAL CENTRE 2 SAN PING CIRCUIT TUEN MUNNT |
| **Product Name**.....: | Zendure Smart Meter 3CT-S and Zendure Smart Meter 1CT-S |
| **Brand Name**.....: | ZENDURE |
| **Main Model**.....: | ZDC2503 |
| **Series Models**.....: | ZDC2502 |
| **Test Standard**.....: | EN 50665 :2017 |
| **Date of Test** .....: | 2026-01-30 to 2026-03-02 |
| **Test Result**.....: | PASS |

**Tested By** .....: Colin Chen (Colin Chen)

**Reviewed By**.....: Lorzix Luo (Lorzix Luo)

**Authorized Signatory**.....: Lahm Peng (Lahm Peng)

Shenzhen CCUT Quality Technology Co., Ltd. APPROVED

Note : This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen CCUT Quality Technology Co., Ltd.. All test data presented in this test report is only applicable to presented test sample.

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## Revision History

| Revision | Issue Date | Description | Revised By |
|---|---|---|---|
| V1.0 | 2026-03-04 | Initial Release | Lahm Peng |
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| | | | |
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# 1. General Information

## 1.1 Product Information

| | |
|---|---|
| Product Name: | Zendure Smart Meter 3CT-S and Zendure Smart Meter 1CT-S |
| Trade Name: | ZENDURE |
| Test Model: | ZDC2503 |
| Series Models: | ZDC2502 |
| Radio Technology: | BLE+802.11b/g/n |
| Antenna Type: | PCB Antenna |
| Antenna Gain: | 0dBi |
| Hardware Version: | V1.0 |
| Software Version: | V1.0 |
| Note 1: The test data is gathered from a production sample, provided by the manufacturer.<br>Note 2: The color of appearance and model name of series models listed are different from the main model, but the circuit and the electronic construction are the same, declared by the manufacturer. | |

## 1.2 Compliance Standards

| Compliance Standards | |
|---|---|
| EN 50665:2017 | Generic standard for assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz) |
| All measurements contained in this report were conducted with all above standards | |
| According to standards for test methodology | |
| EN 50665:2017 | Generic standard for assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz) |
| Maintenance of compliance is the responsibility of the manufacturer or applicant. Any modification of the product, which result is lowering the emission, should be checked to ensure compliance has been maintained. | |

# 2. Human Exposure to Electromagnetic Fields

## 2.1 Standard Applicable

This International Standard applies to electronic and electrical equipment for which no dedicated product- or product family standard regarding human exposure to electromagnetic fields applies. The frequency range covered is 0 Hz to 300 GHz.

The object of this generic standard is to provide assessment methods and criteria to evaluate such equipment against basic restrictions or reference levels on exposure of the general public related to electric, magnetic and electromagnetic fields and induced and contact current.

EN 50665:2017, Generic standard for assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz).

Council Recommendation 1999/519/EC of 12 July 1999 on the limitation of exposure of the general public to the electromagnetic fields (0Hz to 300GHz) (Official Journal L 197 of 30 July 1999).

## 2.2 Reference Levels Limit

According to the EN 50665:2017, the criteria listed in the following table shall be used to evaluate the environmental impact of human exposure to radio-frequency (RF) radiation as specified 1999/519/EC.

Reference levels of electric, magnetic, and electromagnetic fields

(0MHz to 300GHz, imperturbed rms values)

| Frequency range | E-field strength (V/m) | H-field strength (A/m) | B-field (nT) | Equivalent plane wave power density $S_{Eq}$ ($W/m^2$) |
|---|---|---|---|---|
| 0-1Hz | — | $3.2X10^4$ | $4X10^4$ | — |
| 1-8Hz | 10000 | $3.2X10^4/f^2$ | $4X10^4/f^2$ | — |
| 8-25Hz | 10000 | 4000/f | 5000/f | — |
| 0.025-0.8kHz | 250/f | 4/f | 5/f | — |
| 0.8-3kHz | 250/f | 5 | 6.25 | — |
| 3-150kHz | 87 | 5 | 6.25 | — |
| 0.15-1MHz | 87 | 0.73/f | 0.92/f | — |
| 1-10MHz | $87/f^{1/2}$ | 0.73/f | 0.92/f | — |
| 10-400MHz | 28 | 0.073 | 0.092 | 2 |
| 400-2000MHz | $1,375\ f^{1/2}$ | $0.0037\ f^{1/2}$ | $0.0046\ f^{1/2}$ | f/200 |
| 2-300GHz | 61 | 0.16 | 0.20 | 10 |

**Note**:

1. f as indicated in the frequency range column

2. For frequencies between 100 kHz and 10 GHz, $S_{Eq}$, $E^2$, $H^2$, and $B^2$ are to be averaged over any sixty-minute period.

3. For frequencies exceeding 10GHz, $S_{Eq}$, $E^2$, $H^2$, and $B^2$ are to be averaged over any $68/f^{1.05}$-minute period (f in

GHz).

4. No E-field value is provided for frequencies<1 Hz, which are effectively static electric fields. For most people the annoying perception of surface electric charges will not occur at field strengths less than 25 kV/m, Spark discharges causing stress or annoyance should be avoided.

## 2.3 Evaluation Methods

The antenna of the product, under normal use condition is at least 20 cm away from the body of the user. Warning statement to the user to keeping at least 20 cm separation distance and the prohibition of operating to a person has been printed on the user´s manual. So, this product under normal use is located on electromagnetic far field between the human body.

Field Calculation Formula

$$E = \eta_0 H = \frac{\sqrt{30PG(\theta,\phi)}}{r}$$

G=antenna gain relative to an isotropic antenna
θ ,Ø=elevation and azimuth angles to point of investigation
r=distance from observation point to the antenna
ŋ0=Characteristic impedance of free space

## 2.4 Evaluation Results

| Test Modes | Frequency (MHz) | EIRP (dBm) | E-field Strength (V/m) | E-field Strength Limit (V/m) | Result |
|---|---|---|---|---|---|
| 2.4GHz Wi-Fi | | | | | |
| BLE | 2480 | 0.13 | 0.88 | 61 | Pass |
| 802.11b | 2412 | 12.59 | 3.69 | 61 | Pass |

Since the maximum E-field strength of this device based on 20cm separation distance cannot exceed the E-field strength of reference levels limit. It is deemed to full fit the requirement of RF exposure basic restriction specified in EC Council Recommendation (1999/519/EC).

******* END OF REPORT *******