

TA Technology (Shanghai) Co., Ltd.

Test Report

Report No.: RXA1501-0020SAR01R2

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DC Voltage Measurement

A/D - Converter Resolution nominal

High Range: 1LSB = 6.1 μ V , full range = -100...+300 mV

Low Range: 1LSB = 61nV , full range = -1.....+3mV

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Calibration Factors	X	Y	Z
High Range	402.613 $\pm$ 0.02% (k=2)	403.293 $\pm$ 0.02% (k=2)	403.205 $\pm$ 0.02% (k=2)
Low Range	3.97544 $\pm$ 1.50% (k=2)	3.93356 $\pm$ 1.50% (k=2)	3.99377 $\pm$ 1.50% (k=2)

Connector Angle

Connector Angle to be used in DASY system	308.5 $^{\circ}$ $\pm$ 1 $^{\circ}$
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Appendix (Additional assessments outside the scope of SCS108)

1. DC Voltage Linearity

High Range	Reading (μV)	Difference (μV)	Error (%)
Channel X + Input	200033.82	-3.10	-0.00
Channel X + Input	20004.15	-0.02	-0.00
Channel X - Input	-20004.31	1.85	-0.01
Channel Y + Input	200033.24	-3.41	-0.00
Channel Y + Input	20003.47	-0.54	-0.00
Channel Y - Input	-20006.08	0.19	-0.00
Channel Z + Input	200036.05	-0.73	-0.00
Channel Z + Input	20001.26	-2.68	-0.01
Channel Z - Input	-20007.69	-1.47	0.01

Low Range	Reading (μV)	Difference (μV)	Error (%)
Channel X + Input	2000.57	-0.08	-0.00
Channel X + Input	200.57	-0.14	-0.07
Channel X - Input	-199.31	-0.00	0.00
Channel Y + Input	1999.81	-0.79	-0.04
Channel Y + Input	200.05	-0.62	-0.31
Channel Y - Input	-199.06	0.30	-0.15
Channel Z + Input	2001.14	0.56	0.03
Channel Z + Input	199.16	-1.42	-0.71
Channel Z - Input	-200.73	-1.23	0.62

2. Common mode sensitivity

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Common mode Input Voltage (mV)	High Range Average Reading (μV)	Low Range Average Reading (μV)
Channel X	200	9.64	7.77
	- 200	-6.77	-8.44
Channel Y	200	13.71	13.30
	- 200	-14.01	-14.19
Channel Z	200	-16.88	-16.56
	- 200	13.70	13.86

3. Channel separation

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Input Voltage (mV)	Channel X (μV)	Channel Y (μV)	Channel Z (μV)
Channel X	200	-	3.91	-4.26
Channel Y	200	8.88	-	3.64
Channel Z	200	10.51	7.45	-

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4. AD-Converter Values with inputs shorted

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	High Range (LSB)	Low Range (LSB)
Channel X	16003	13374
Channel Y	15805	15470
Channel Z	16035	14317

5. Input Offset Measurement

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Input 10M Ω

	Average (μ V)	min. Offset (μ V)	max. Offset (μ V)	Std. Deviation (μ V)
Channel X	0.37	-1.17	1.61	0.49
Channel Y	0.25	-0.91	1.56	0.48
Channel Z	-0.62	-1.83	0.60	0.47

6. Input Offset Current

Nominal Input circuitry offset current on all channels: <25fA

7. Input Resistance (Typical values for information)

	Zeroing (kOhm)	Measuring (MOhm)
Channel X	200	200
Channel Y	200	200
Channel Z	200	200

8. Low Battery Alarm Voltage (Typical values for information)

Typical values	Alarm Level (VDC)
Supply (+ Vcc)	+7.9
Supply (- Vcc)	-7.6

9. Power Consumption (Typical values for information)

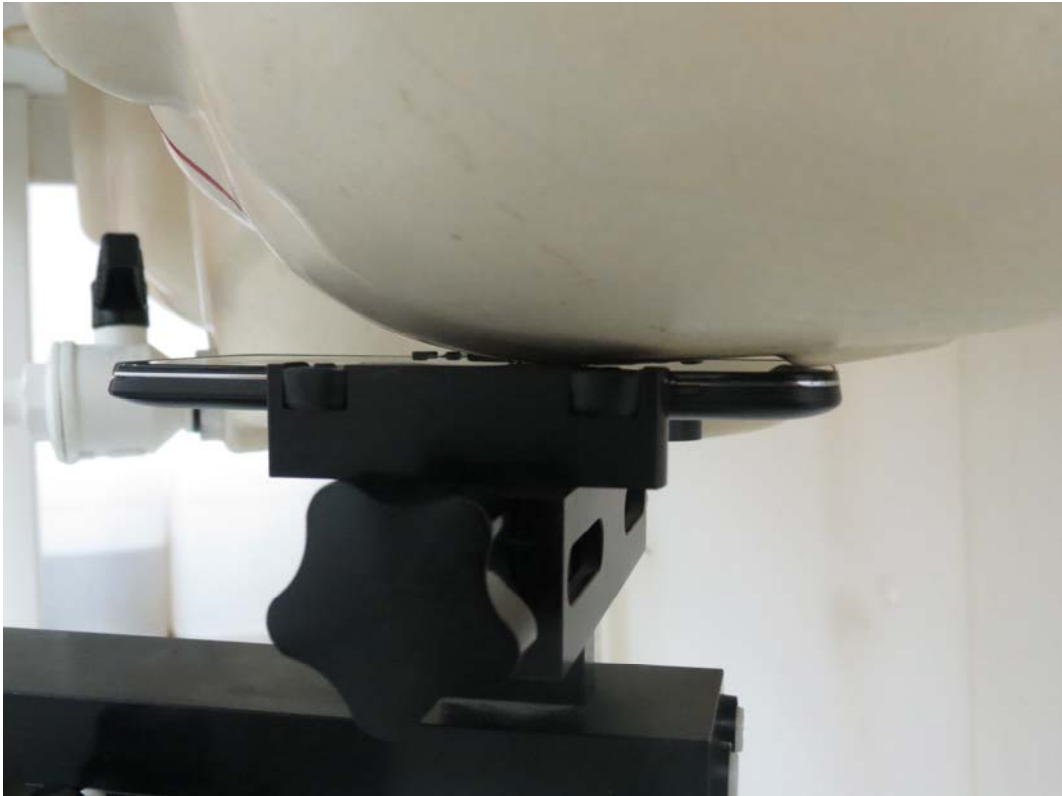
Typical values	Switched off (mA)	Stand by (mA)	Transmitting (mA)
Supply (+ Vcc)	+0.01	+6	+14
Supply (- Vcc)	-0.01	-8	-9

ANNEX L: The EUT Appearances and Test Configuration



a: EUT

Picture 11: Constituents of EUT



Picture 12: Left Hand Touch Cheek Position



Picture 13: Left Hand Tilt 15 Degree Position



Picture 14: Right Hand Touch Cheek Position

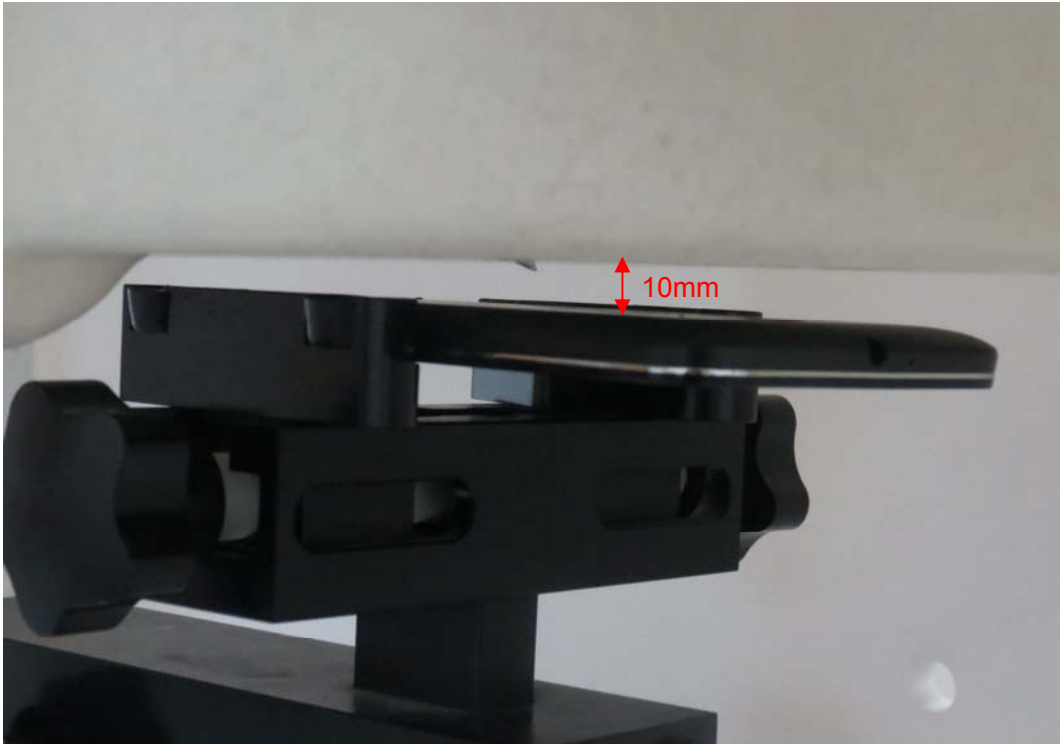


Picture 15: Right Hand Tilt 15 Degree Position

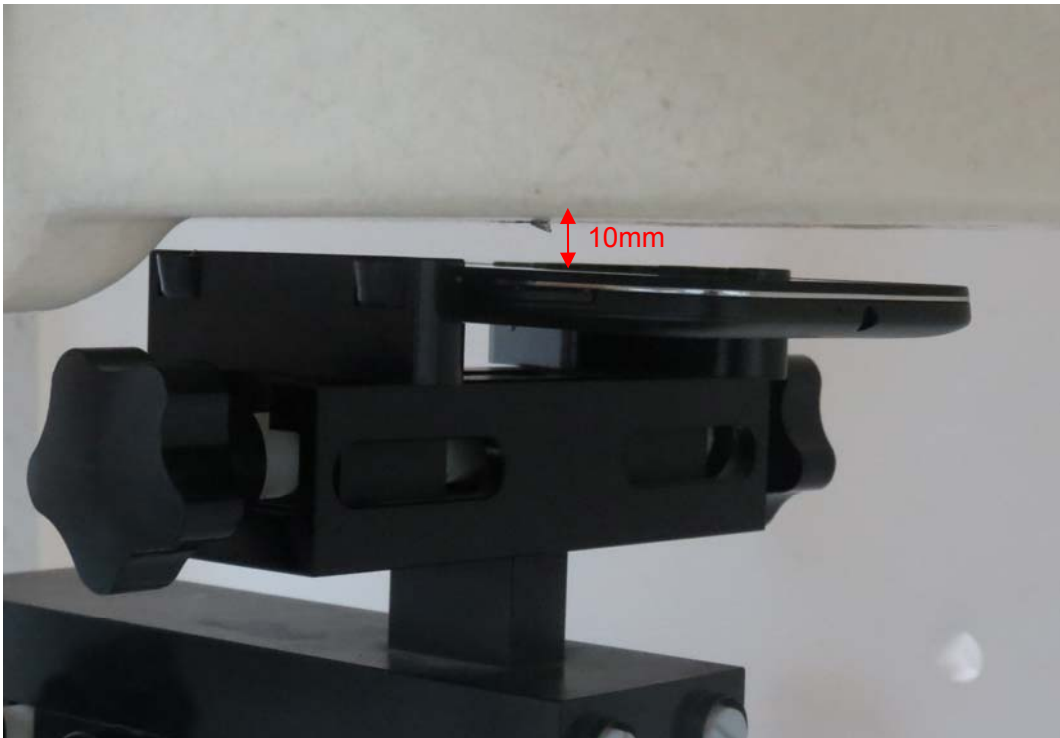
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Picture 16: Back Side, the distance from handset to the bottom of the Phantom is 10mm



Picture 17: Front Side, the distance from handset to the bottom of the Phantom is 10mm

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Picture 18: Left Side, the distance from handset to the bottom of the Phantom is 10mm



Picture 19: Right Side, the distance from handset to the bottom of the Phantom is 10mm

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Picture 20: Top Side, the distance from handset to the bottom of the Phantom is 10mm



Picture 21: Bottom Side, the distance from handset to the bottom of the Phantom is 10mm