

# TA Technology (Shanghai) Co., Ltd.

## Test Report

No. RZA2008-1084FCC

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### Appendix

#### 1. DC Voltage Linearity

High Range	Input ( $\mu\text{V}$ )	Reading ( $\mu\text{V}$ )	Error (%)
Channel X + Input	200000	199999.6	0.00
Channel X + Input	20000	20010.85	0.05
Channel X - Input	20000	-20007.22	0.04
Channel Y + Input	200000	199999.7	0.00
Channel Y + Input	20000	20004.64	0.02
Channel Y - Input	20000	-20007.87	0.04
Channel Z + Input	200000	199999.9	0.00
Channel Z + Input	20000	20006.37	0.03
Channel Z - Input	20000	-20004.56	0.02

Low Range	Input ( $\mu\text{V}$ )	Reading ( $\mu\text{V}$ )	Error (%)
Channel X + Input	2000	2000.1	0.00
Channel X + Input	200	200.31	0.16
Channel X - Input	200	-200.05	0.03
Channel Y + Input	2000	2000.1	0.00
Channel Y + Input	200	200.32	0.16
Channel Y - Input	200	-201.77	0.89
Channel Z + Input	2000	1999.9	0.00
Channel Z + Input	200	199.01	-0.50
Channel Z - Input	200	-201.29	0.64

#### 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 ( $\mu\text{V}$ )	Low Range Average Reading ( $\mu\text{V}$ )
Channel X	200	4.04	3.25
	- 200	-2.86	-3.04
Channel Y	200	-8.82	-8.52
	- 200	6.51	7.21
Channel Z	200	10.37	10.27
	- 200	-12.69	-12.80

#### 3. Channel separation

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

	Input Voltage (mV)	Channel X ( $\mu\text{V}$ )	Channel Y ( $\mu\text{V}$ )	Channel Z ( $\mu\text{V}$ )
Channel X	200	-	2.55	-0.94
Channel Y	200	0.77	-	2.38
Channel Z	200	-1.41	-0.39	-

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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	16118	16294
Channel Y	15879	15841
Channel Z	16155	16260

#### 5. Input Offset Measurement

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

Input 10M $\Omega$

	Average ( $\mu$ V)	min. Offset ( $\mu$ V)	max. Offset ( $\mu$ V)	Std. Deviation ( $\mu$ V)
Channel X	0.35	-1.09	1.93	0.35
Channel Y	-1.29	-2.07	-0.24	0.35
Channel Z	-0.68	-1.73	0.45	0.36

#### 6. Input Offset Current

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

#### 7. Input Resistance

	Zeroing (MOhm)	Measuring (MOhm)
Channel X	0.2000	198.4
Channel Y	0.2000	200.1
Channel Z	0.2001	199.5

#### 8. Low Battery Alarm Voltage (verified during pre test)

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

#### 9. Power Consumption (verified during pre test)

Typical values	Switched off (mA)	Stand by (mA)	Transmitting (mA)
Supply (+ Vcc)	+0.0	+6	+14
Supply (- Vcc)	-0.01	-8	-9