

Appendix (Additional assessments outside the scope of SCS0108)

1. DC Voltage Linearity

High Range	Reading (μV)	Difference (μV)	Error (%)
Channel X + Input	200022.73	-12.42	-0.01
Channel X + Input	20003.49	-1.25	-0.01
Channel X - Input	-19998.82	6.77	-0.03
Channel Y + Input	200025.10	-10.04	-0.01
Channel Y + Input	20007.22	2.54	0.01
Channel Y - Input	-20002.34	3.30	-0.02
Channel Z + Input	200028.10	-6.82	-0.00
Channel Z + Input	20002.36	-2.19	-0.01
Channel Z - Input	-20003.64	2.12	-0.01

Low Range	Reading (μV)	Difference (μV)	Error (%)
Channel X + Input	2000.54	-0.37	-0.02
Channel X + Input	201.37	0.50	0.25
Channel X - Input	-199.19	-0.20	0.10
Channel Y + Input	1999.95	-0.89	-0.04
Channel Y + Input	200.04	-0.75	-0.37
Channel Y - Input	-199.96	-0.85	0.43
Channel Z + Input	2001.05	0.20	0.01
Channel Z + Input	199.88	-0.86	-0.43
Channel Z - Input	-200.02	-0.88	0.44

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	5.45	3.79
	- 200	3.93	0.83
Channel Y	200	7.70	7.39
	- 200	-9.52	-8.90
Channel Z	200	7.51	6.49
	- 200	-9.21	-8.71

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	-	-1.61	-2.84
Channel Y	200	8.30	-	0.46
Channel Z	200	6.69	5.02	-

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	15919	14652
Channel Y	16343	14477
Channel Z	16033	14911

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	-0.50	-2.04	0.95	0.51
Channel Y	1.56	0.40	2.80	0.48
Channel Z	0.26	-0.78	1.16	0.42

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

The photos of HAC test are presented in the additional document:

Appendix to test report No.I17Z62126-SEM02/03

The photos of HAC test