

Appendix (Additional assessments outside the scope of SCS0108)

1. DC Voltage Linearity

High Range	Reading (μV)	Difference (μV)	Error (%)
Channel X + Input	199994.32	-1.11	-0.00
Channel X + Input	20004.21	2.27	0.01
Channel X - Input	-19994.21	6.72	-0.03
Channel Y + Input	199991.01	-4.74	-0.00
Channel Y + Input	19999.15	-2.66	-0.01
Channel Y - Input	-19999.37	1.70	-0.01
Channel Z + Input	199997.50	1.46	0.00
Channel Z + Input	19998.75	-3.06	-0.02
Channel Z - Input	-20003.08	-1.96	0.01

Low Range	Reading (μV)	Difference (μV)	Error (%)
Channel X + Input	2001.23	-0.12	-0.01
Channel X + Input	201.73	0.03	0.02
Channel X - Input	-197.79	0.32	-0.16
Channel Y + Input	2001.22	0.00	0.00
Channel Y + Input	201.15	-0.62	-0.31
Channel Y - Input	-198.47	-0.28	0.14
Channel Z + Input	2001.41	0.23	0.01
Channel Z + Input	200.99	-0.67	-0.33
Channel Z - Input	-199.42	-1.11	0.56

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	-10.02	-11.33
	- 200	12.53	10.76
Channel Y	200	10.66	10.40
	- 200	-12.33	-12.29
Channel Z	200	-2.18	-2.52
	- 200	0.20	-0.09

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	-	-0.85	-2.68
Channel Y	200	8.65	-	0.04
Channel Z	200	6.10	6.93	-

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	15635	14959
Channel Y	15850	16040
Channel Z	16635	16604

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	0.40	-0.72	1.60	0.48
Channel Y	0.06	-0.99	1.84	0.46
Channel Z	-0.76	-2.17	0.18	0.48

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. I18Z61178-SEM02/03

The photos of HAC test