

Appendix (Additional assessments outside the scope of SCS0108)

1. DC Voltage Linearity

High Range		Reading (μV)	Difference (μV)	Error (%)
Channel X	+ Input	199995.37	1.13	0.00
Channel X	+ Input	20005.16	2.79	0.01
Channel X	- Input	-19998.72	2.61	-0.01
Channel Y	+ Input	199995.41	1.18	0.00
Channel Y	+ Input	20002.16	-0.14	-0.00
Channel Y	- Input	-20002.39	-0.94	0.00
Channel Z	+ Input	199990.62	-3.38	-0.00
Channel Z	+ Input	20001.35	-0.87	-0.00
Channel Z	- Input	-20002.00	-0.46	0.00

Low Range		Reading (μV)	Difference (μV)	Error (%)
Channel X	+ Input	2003.25	1.64	0.08
Channel X	+ Input	202.48	0.72	0.36
Channel X	- Input	-199.01	-0.88	0.44
Channel Y	+ Input	2002.42	1.01	0.05
Channel Y	+ Input	201.63	0.01	0.00
Channel Y	- Input	-198.67	-0.34	0.17
Channel Z	+ Input	2002.15	0.81	0.04
Channel Z	+ Input	201.17	-0.22	-0.11
Channel Z	- Input	-199.46	-1.03	0.52

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	10.28	8.25
	- 200	-7.08	-9.25
Channel Y	200	-7.12	-7.10
	- 200	7.36	6.75
Channel Z	200	11.82	11.60
	- 200	-14.03	-14.11

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	-	1.21	-3.95
Channel Y	200	7.96	-	1.83
Channel Z	200	10.40	6.06	-

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	15876	14294
Channel Y	16015	16306
Channel Z	15708	16446

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	0.99	-0.11	2.66	0.50
Channel Y	-0.05	-1.30	1.18	0.48
Channel Z	-0.86	-2.06	0.32	0.44

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