

Appendix (Additional assessments outside the scope of SCS0108)

1. DC Voltage Linearity

High Range		Reading (μV)	Difference (μV)	Error (%)
Channel X	+ Input	200033.56	-1.59	-0.00
Channel X	+ Input	20003.07	-0.25	-0.00
Channel X	- Input	-20011.37	-1.80	0.01
Channel Y	+ Input	200032.25	-1.91	-0.00
Channel Y	+ Input	20001.82	-1.52	-0.01
Channel Y	- Input	-20010.20	-0.59	0.00
Channel Z	+ Input	200033.77	-0.35	-0.00
Channel Z	+ Input	20002.65	-0.57	-0.00
Channel Z	- Input	-20009.78	-0.08	0.00

Low Range		Reading (μV)	Difference (μV)	Error (%)
Channel X	+ Input	1998.02	-0.23	-0.01
Channel X	+ Input	197.63	-0.44	-0.22
Channel X	- Input	-203.29	-1.56	0.77
Channel Y	+ Input	1998.25	0.10	0.00
Channel Y	+ Input	197.01	-0.95	-0.48
Channel Y	- Input	-203.04	-1.19	0.59
Channel Z	+ Input	1998.06	-0.09	-0.00
Channel Z	+ Input	197.16	-0.79	-0.40
Channel Z	- Input	-202.86	-1.10	0.54

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	-8.99	-10.07
	- 200	11.24	9.62
Channel Y	200	-1.51	-1.83
	- 200	-0.04	-0.59
Channel Z	200	-2.01	-2.26
	- 200	1.39	1.12

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	-	1.01	-2.37
Channel Y	200	5.23	-	3.20
Channel Z	200	9.33	3.70	-

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	16139	16040
Channel Y	15680	16500
Channel Z	15881	15362

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	-0.78	-1.45	1.54	0.38
Channel Y	-0.79	-1.84	-0.37	0.24
Channel Z	-0.51	-1.17	0.23	0.30

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