

Appendix (Additional assessments outside the scope of SCS0108)

1. DC Voltage Linearity

| High Range | Reading (μV) | Difference (μV) | Error (%) |
|-------------------|---------------------------|------------------------------|-----------|
| Channel X + Input | 200030.95 | -2.42 | -0.00 |
| Channel X + Input | 20004.11 | -0.05 | -0.00 |
| Channel X - Input | -20003.75 | 2.02 | -0.01 |
| Channel Y + Input | 200031.20 | -2.23 | -0.00 |
| Channel Y + Input | 20001.46 | -2.74 | -0.01 |
| Channel Y - Input | -20005.92 | -0.05 | 0.00 |
| Channel Z + Input | 200032.03 | -1.05 | -0.00 |
| Channel Z + Input | 20001.94 | -2.11 | -0.01 |
| Channel Z - Input | -20006.15 | -0.20 | 0.00 |

| Low Range | Reading (μV) | Difference (μV) | Error (%) |
|-------------------|---------------------------|------------------------------|-----------|
| Channel X + Input | 2000.66 | 0.19 | 0.01 |
| Channel X + Input | 200.40 | -0.18 | -0.09 |
| Channel X - Input | -198.67 | 0.81 | -0.40 |
| Channel Y + Input | 2000.90 | 0.48 | 0.02 |
| Channel Y + Input | 199.98 | -0.58 | -0.29 |
| Channel Y - Input | -200.18 | -0.62 | 0.31 |
| Channel Z + Input | 2000.68 | 0.32 | 0.02 |
| Channel Z + Input | 199.07 | -1.45 | -0.72 |
| Channel Z - Input | -201.14 | -1.52 | 0.76 |

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 | 18.32 | 16.76 |
| | - 200 | -15.73 | -17.08 |
| Channel Y | 200 | -20.47 | -20.86 |
| | - 200 | 20.66 | 20.31 |
| Channel Z | 200 | 13.43 | 13.46 |
| | - 200 | -15.65 | -15.97 |

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 | - | 0.08 | -3.66 |
| Channel Y | 200 | 7.12 | - | 1.80 |
| Channel Z | 200 | 10.44 | 4.52 | - |

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 | 15817 | 15005 |
| Channel Y | 16329 | 14457 |
| Channel Z | 15576 | 15478 |

5. Input Offset Measurement

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec
Input 10MΩ

| | Average (μV) | min. Offset (μV) | max. Offset (μV) | Std. Deviation (μV) |
|-----------|--------------|------------------|------------------|---------------------|
| Channel X | 0.63 | -0.54 | 2.27 | 0.51 |
| Channel Y | -2.07 | -3.42 | -1.02 | 0.49 |
| Channel Z | -0.89 | -2.38 | 0.83 | 0.54 |

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 |

ANNEX J Accreditation Certificate

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 600118-0

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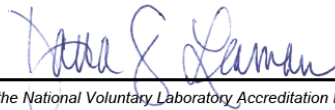
*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:*

Electromagnetic Compatibility & Telecommunications

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).*

2016-09-29 through 2017-09-30
Effective Dates




For the National Voluntary Laboratory Accreditation Program