

Program Version: V5.0.4

Product: Oxygen Optode 4831

Serial No: 800

Visual and Mechanical Checks:

- 1.1 Soldering quality
- 1.2 Visual surface
- 1.3 Galvanic isolation between housing and electronics

Current Drain and Voltages:

2.1	Average current drain at 0.5 Hz sampling (Max.: 33 mA)	20.8	mA
2.2	CANBus Current drain at 0.5 Hz sampling (Max.: 33 mA)		mA
2.3	Current drain in sleep (Max.: 270 μ A)	211	μ A
2.4	CANBus Current drain in sleep (Max.: 180 μ A)		μ A
2.5	DSP IO voltage, J4.18 (3.3 \pm 0.15V)		V
2.6	DSP Core voltage, J4.17(1.8 \pm 0.05 V)	1.82	V
2.7	Excitation driver voltage, C4 Analog Board (4.3 \pm 0.1 V)	4.38	V

Performance test:

	Channel:	Blue	Red
3.1	Average of Receiver readings (0 \pm 150mV)	-12.4 mV	-5.9 mV
3.2	Standard Deviation of Receiver readings (Max.: 45mV/10mV)	2.30 mV	0.32 mV
3.3	Amplitude measm. with non-fluorescence foil (<60mV/650-1200mV)	13.9 mV	1064 mV
3.4	CANBus Output test		

Function test from 0 to 40°C:

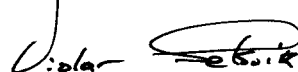
	Channel:	Blue	Red
4.1	Minimum amplitude measurement (Blue: >550 mV, Red >650 mV)	784.4 mV	795.8 mV
4.2	Maximum amplitude measurement (Blue: <1600 mV, Red <1400 mV)	1214 mV	1264.7 mV
4.3	Minimum phase measurement (Blue: >32°, Red: >3°)	34.31 °	5.96 °
4.4	Maximum phase measurement (Blue: <45°, Red: <10°)	40.07 °	7.61 °
4.5	Maximum standard deviation of Phase measurement: (< 0.05°)	0.06 °	0.06 °
4.6	Minimum temperature raw data measurement: (<-200 mV)		-456.3 mV
4.7	Maximum temperature raw data measurement: (>450 mV)		719.8 mV

Pressure test :

5.1	Pressure (IW version: 20MPa, DW version 60MPa)	60MPa
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Date: 22 Jan 2019

Sign:



Vidar Selsvik, Production Engineer

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Visual and Mechanical Checks:

- 1.1 Soldering quality
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- 1.3 Galvanic isolation between housing and electronics

Current Drain and Voltages:

2.1 Average current drain at 0.5 Hz sampling (Max.: 33 mA)	20.7	mA
2.2 CANBus Current drain at 0.5 Hz sampling (Max.: 33 mA)		mA
2.3 Current drain in sleep (Max.: 270 μ A)	210	μ A
2.4 CANBus Current drain in sleep (Max.: 180 μ A)		μ A
2.5 DSP IO voltage, J4.18 (3.3 ± 0.15 V)		V
2.6 DSP Core voltage, J4.17 (1.8 ± 0.05 V)	1.82	V
2.7 Excitation driver voltage, C4 Analog Board (4.3 ± 0.1 V)	4.27	V

Performance test:

	Channel:	Blue	Red
3.1 Average of Receiver readings (0 ± 150 mV)		-23.8 mV	-16.2 mV
3.2 Standard Deviation of Receiver readings (Max.: 45mV/10mV)		1.48 mV	0.39 mV
3.3 Amplitude measm. with non-fluorescence foil (<60mV/650-1200mV)		13.5 mV	1055.1 mV
3.4 CANBus Output test			

Function test from 0 to 40°C:

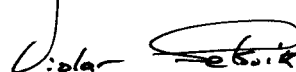
	Channel:	Blue	Red
4.1 Minimum amplitude measurement (Blue: >550 mV, Red >650 mV)		819.5 mV	758.6 mV
4.2 Maximum amplitude measurement (Blue: <1600 mV, Red <1400 mV)		1283.2 mV	1271.1 mV
4.3 Minimum phase measurement (Blue: >32°, Red: >3°)		35.54 °	9.27 °
4.4 Maximum phase measurement (Blue: <45°, Red: <10°)		42.21 °	10.05 °
4.5 Maximum standard deviation of Phase measurement: (< 0.05°)		0.05 °	0.03 °
4.6 Minimum temperature raw data measurement: (<-200 mV)			-407.5 mV
4.7 Maximum temperature raw data measurement: (>450 mV)			768 mV

Pressure test :

5.1 Pressure (IW version: 20MPa, DW version 60MPa)	60MPa
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Sign:



Vidar Selsvik, Production Engineer