

Program Version: 04.09.2001

Product: Oxygen Optode 4831

Serial No: 681

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)	23.0	mA
2.2	CANBus Current drain at 0.5 Hz sampling (Max.: 33 mA)		mA
2.3	Current drain in sleep (Max.: 180 μ A)	219	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 (4.5 ± 0.15 V)	4.30	V

Performance test:

	Channel:	Blue	Red
3.1	Average of Receiver readings (0 ± 150 mV)	10.2 mV	5.4 mV
3.2	Standard Deviation of Receiver readings (Max.: 45mV/10mV)	1.51 mV	0.49 mV
3.3	Amplitude measm. with non-fluorescence foil (<60mV/650-1200mV)	15.3 mV	1039.2 mV
3.4	CANBus Output test		

Function test from 0 to 40°C:

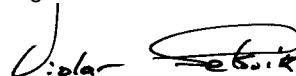
	Channel:	Blue	Red
4.1	Minimum amplitude measurement (Blue: >550 mV, Red >650 mV)	659 mV	754.5 mV
4.2	Maximum amplitude measurement (Blue: <1600 mV, Red <1400 mV)	994.3 mV	1179.3 mV
4.3	Minimum phase measurement (Blue: >24°, Red: >1°)	34.75 °	7.43 °
4.4	Maximum phase measurement (Blue: <34°, Red: <5°)	40.21 °	8.43 °
4.5	Maximum standard deviation of Phase measurement: (< 0.02°)	0.05 °	0.05 °
4.6	Minimum temperature raw data measurement: (<-200 mV)		-525.6 mV
4.7	Maximum temperature raw data measurement: (>450 mV)		537.3 mV

Pressure test :

5.1	Pressure (IW version: 20MPa, DW version 60MPa)	60MPa
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Date: 23 Mar 2017

Sign:



Vidar Selsvik, Production Engineer