

Program Version: 04.09.2001

Product: Oxygen Optode 4831

Serial No: 682

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)	23.1	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)	246	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)	1.81	V
2.7 Excitation driver voltage, C4 Analog Board (4.5 \pm 0.15 V)	4.36	V

Performance test:

	Channel:	Blue	Red
3.1 Average of Receiver readings (0 \pm 150mV)		-6.0 mV	-2.8 mV
3.2 Standard Deviation of Receiver readings (Max.: 45mV/10mV)		5.24 mV	0.39 mV
3.3 Amplitude measm. with non-fluorescence foil (<60mV/650-1200mV)		18.3 mV	920.2 mV
3.4 CANBus Output test			

Function test from 0 to 40°C:

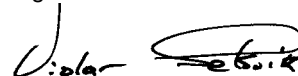
	Channel:	Blue	Red
4.1 Minimum amplitude measurement (Blue: >550 mV, Red >650 mV)		786.2 mV	669.6 mV
4.2 Maximum amplitude measurement (Blue: <1600 mV, Red <1400 mV)		1230.5 mV	1101 mV
4.3 Minimum phase measurement (Blue: >24°, Red: >1°)		33.95 °	8.25 °
4.4 Maximum phase measurement (Blue: <34°, Red: <5°)		39.64 °	9.21 °
4.5 Maximum standard deviation of Phase measurement: (< 0.02°)		0.05 °	0.04 °
4.6 Minimum temperature raw data measurement: (<-200 mV)			-548.3 mV
4.7 Maximum temperature raw data measurement: (>450 mV)			576.9 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