

**Program Version:** V5.3.1

**Product:** Oxygen Optode 4831

**Serial No:** 950

## 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)	23.6	mA
2.2	CANBus Current drain at 0.5 Hz sampling (Max.: 33 mA)		mA
2.3	Current drain in sleep (Max.: 270 $\mu$ A)	261	$\mu$ A
2.4	CANBus Current drain in sleep (Max.: 180 $\mu$ A)		$\mu$ A
2.5	DSP IO voltage, J4.18 (3.3 $\pm$ 0.15V)	3.30	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 (4.3 $\pm$ 0.1 V)	4.33	V

## Performance test:

	Channel:	Blue	Red
3.1	Average of Receiver readings (0 $\pm$ 150mV)	-0.4 mV	0.0 mV
3.2	Standard Deviation of Receiver readings (Max.: 45mV/10mV)	1.11 mV	0.53 mV
3.3	Amplitude measurement with non-fluorescence foil (<60mV/650-1200mV)	9.7 mV	953.4 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 >550 mV)	811.7 mV	797 mV
4.2	Maximum amplitude measurement (Blue: <1600 mV, Red <1400 mV)	1247.5 mV	1251.6 mV
4.3	Minimum phase measurement (Blue: >32°, Red: >3°)	33.86 °	6.46 °
4.4	Maximum phase measurement (Blue: <45°, Red: <10°)	39.81 °	7.8 °
4.5	Maximum standard deviation of Phase measurement: (< 0.07°)	0.05 °	0.04 °
4.6	Minimum temperature raw data measurement: (<-200 mV)		-438.9 mV
4.7	Maximum temperature raw data measurement: (>450 mV)		722.2 mV

Date: 10 May 2021

Sign:

Laila A. Skålnes

Laila Skålnes, Production Engineer

**Product:** Oxygen Optode 4831

**Certificate No:** 184363260950

**Serial No:** 950

**Date:** 10.05.2021

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This is to certify that this product has been pressure tested with the following instrument, and we confirm that no irregularities were found during the test:

Autoklav 800 bar – sn: 0210005

**Pressure readings:**

Pressure (Bar)	Pressure time (hour)
600	1

Date: 10 May 2021

Sign:

Laila A. Skålnes

Laila Skålnes, Production Engineer