

Program Version: 5.3.1

Product: Oxygen Optode 4831

Serial No: 947

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)	22.9	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)	225	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)	3.29	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)	4.34	V

Performance test:

	Channel:	Blue	Red
3.1	Average of Receiver readings (0 \pm 150mV)	-6.6 mV	-3.0 mV
3.2	Standard Deviation of Receiver readings (Max.: 45mV/10mV)	3.51 mV	0.79 mV
3.3	Amplitude measurement with non-fluorescence foil (<60mV/650-1200mV)	8.4 mV	905.2 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 >550 mV)	631.4 mV	759.9 mV
4.2	Maximum amplitude measurement (Blue: <1600 mV, Red <1400 mV)	958.3 mV	1174.5 mV
4.3	Minimum phase measurement (Blue: >32°, Red: >3°)	34.7 °	5.9 °
4.4	Maximum phase measurement (Blue: <45°, Red: <10°)	40.43 °	7.3 °
4.5	Maximum standard deviation of Phase measurement: (< 0.07°)	0.05 °	0.05 °
4.6	Minimum temperature raw data measurement: (<-200 mV)		-401.2 mV
4.7	Maximum temperature raw data measurement: (>450 mV)		719.2 mV

Date: 11 Feb 2021

Sign:

Laila A. Skålnes

Laila Skålnes, Production Engineer

Product: Oxygen Optode 4831

Certificate No: 181480260947

Serial No: 947

Date: 11.02.2021

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: 11 Feb 2021

Sign:

Laila A. Skålnes

Laila Skålnes, Production Engineer