

Program Version: V5.1.1

Product: Oxygen Optode 4831

Serial No: 882

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)	21.1	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)	212	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)	4.29	V

Performance test:

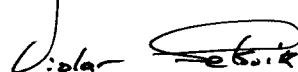
	Channel:	Blue	Red
3.1	Average of Receiver readings (0 \pm 150mV)	-22.3 mV	-10.9 mV
3.2	Standard Deviation of Receiver readings (Max.: 45mV/10mV)	2.68 mV	0.35 mV
3.3	Amplitude measurement with non-fluorescence foil (<60mV/650-1200mV)	10.7 mV	991.9 mV
3.4	CANBus Output test		

Function test from 0 to 40°C:

	Channel:	Blue	Red
4.1	Minimum amplitude measurement (Blue: >550 mV, Red >550 mV)	668.6 mV	743.9 mV
4.2	Maximum amplitude measurement (Blue: <1600 mV, Red <1400 mV)	1020.2 mV	1177.4 mV
4.3	Minimum phase measurement (Blue: >32°, Red: >3°)	35.43 °	7.67 °
4.4	Maximum phase measurement (Blue: <45°, Red: <10°)	41.93 °	8.54 °
4.5	Maximum standard deviation of Phase measurement: (< 0.07°)	0.03 °	0.04 °
4.6	Minimum temperature raw data measurement: (<-200 mV)		-476.9 mV
4.7	Maximum temperature raw data measurement: (>450 mV)		657.6 mV

Date: 11 Feb 2020

Sign:



Vidar Selsvik, Production Engineer



PRESSURE CERTIFICATE

Form No. 667, Sept 2009

Product: Oxygen Optode 4831
Serial No: 882
Date: 27,01,2020

Certificate No: 172999260882

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: 13 Jul 2020

Sign:

Vidar Selsvik, Production Engineer