

Program Version: V5.1.1

Product: Oxygen Optode 4831

Serial No: 884

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)	23.2	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)	262	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)	3.30	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)	4.34	V

Performance test:

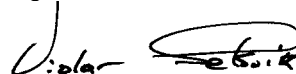
	Channel:	Blue	Red
3.1	Average of Receiver readings (0 \pm 150mV)	-2.7 mV	-4.9 mV
3.2	Standard Deviation of Receiver readings (Max.: 45mV/10mV)	4.21 mV	2.08 mV
3.3	Amplitude measurement with non-fluorescence foil (<60mV/650-1200mV)	11.8 mV	1035.8 mV
3.4	CANBus Output test		

Function test from 0 to 40°C:

	Channel:	Blue	Red
4.1	Minimum amplitude measurement (Blue: >550 mV, Red >550 mV)	789.8 mV	777.3 mV
4.2	Maximum amplitude measurement (Blue: <1600 mV, Red <1400 mV)	1190.1 mV	1172.7 mV
4.3	Minimum phase measurement (Blue: >32°, Red: >3°)	34.13 °	7.69 °
4.4	Maximum phase measurement (Blue: <45°, Red: <10°)	40.33 °	8.42 °
4.5	Maximum standard deviation of Phase measurement: (< 0.07°)	0.05 °	0.03 °
4.6	Minimum temperature raw data measurement: (<-200 mV)		-464 mV
4.7	Maximum temperature raw data measurement: (>450 mV)		668.4 mV

Date: 29 Jun 2020

Sign:



Vidar Selsvik, Production Engineer



PRESSURE CERTIFICATE

Form No. 667, Sept 2009

Product: Oxygen Optode 4831
Serial No: 884
Date: 03.06.2020

Certificate No: 173001260884

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