

**Program Version:** 5.1.1

**Product:** Oxygen Optode 4330F DW

**Serial No:** 4052

## 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)	22.5	mA
2.2	CANBus Current drain at 0.5 Hz sampling (Max.: 33 mA)	21.2	mA
2.3	Current drain in sleep (Max.: 270 $\mu$ A)	115	$\mu$ A
2.4	CANBus Current drain in sleep (Max.: 180 $\mu$ A)	107	$\mu$ A
2.5	DSP IO voltage, J4.18 ( $3.3 \pm 0.15$ V)	3.29	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)	4.34	V

## Performance test:

	Channel:	Blue	Red
3.1	Average of Receiver readings ( $0 \pm 150$ mV)	-15.2 mV	-7.2 mV
3.2	Standard Deviation of Receiver readings (Max.: 45mV/10mV)	1.56 mV	0.25 mV
3.3	Amplitude measurement with non-fluorescence foil (<60mV/650-1200mV)	18.7 mV	1024.1 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)	801.9 mV	839.1 mV
4.2	Maximum amplitude measurement (Blue: <1600 mV, Red <1400 mV)	1249.5 mV	1340.4 mV
4.3	Minimum phase measurement (Blue: >32°, Red: >3°)	34.83 °	7.59 °
4.4	Maximum phase measurement (Blue: <45°, Red: <10°)	41.79 °	8.15 °
4.5	Maximum standard deviation of Phase measurement: (< 0.07°)	0.04 °	0.03 °
4.6	Minimum temperature raw data measurement: (<-200 mV)		-375.5 mV
4.7	Maximum temperature raw data measurement: (>450 mV)		780.1 mV

Date: 29 Sep 2022

Sign:

Erlend S. Lid

Erlend Lid, Production Engineer

**Program Version:** 5.1.1

**Product:** Oxygen Optode 4330F DW

**Serial No:** 4053

## 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)	22.7	mA
2.2	CANBus Current drain at 0.5 Hz sampling (Max.: 33 mA)	21.5	mA
2.3	Current drain in sleep (Max.: 270 $\mu$ A)	116	$\mu$ A
2.4	CANBus Current drain in sleep (Max.: 180 $\mu$ A)	106	$\mu$ A
2.5	DSP IO voltage, J4.18 (3.3 $\pm$ 0.15V)	3.31	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)	4.33	V

## Performance test:

	Channel:	Blue	Red
3.1	Average of Receiver readings (0 $\pm$ 150mV)	-15.1 mV	-7.2 mV
3.2	Standard Deviation of Receiver readings (Max.: 45mV/10mV)	1.72 mV	0.26 mV
3.3	Amplitude measurement with non-fluorescence foil (<60mV/650-1200mV)	17.9 mV	885.5 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)	803.8 mV	717 mV
4.2	Maximum amplitude measurement (Blue: <1600 mV, Red <1400 mV)	1261 mV	1155 mV
4.3	Minimum phase measurement (Blue: >32°, Red: >3°)	34.75 °	7.72 °
4.4	Maximum phase measurement (Blue: <45°, Red: <10°)	41.66 °	8.28 °
4.5	Maximum standard deviation of Phase measurement: (< 0.07°)	0.04 °	0.03 °
4.6	Minimum temperature raw data measurement: (<-200 mV)		-406.8 mV
4.7	Maximum temperature raw data measurement: (>450 mV)		750.3 mV

Date: 29 Sep 2022

Sign:

Erlend S. Lid

Erlend Lid, Production Engineer