

Program Version: 5.1.1

Product: Oxygen Optode 4330DW

Serial No: 4099

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)	21.4	mA
2.2	CANBus Current drain at 0.5 Hz sampling (Max.: 33 mA)	20.0	mA
2.3	Current drain in sleep (Max.: 270 μ A)	109	μ A
2.4	CANBus Current drain in sleep (Max.: 180 μ A)	104	μ A
2.5	DSP IO voltage, J4.18 (3.3 ± 0.15 V)	3.28	V
2.6	DSP Core voltage, J4.17 (1.8 ± 0.05 V)	1.82	V
2.7	Excitation driver voltage, C4 Analog Board (4.3 ± 0.1 V)	4.28	V

Performance test:

	Channel:	Blue	Red
3.1	Average of Receiver readings (0 ± 150 mV)	-3.4 mV	-1.3 mV
3.2	Standard Deviation of Receiver readings (Max.: 45mV/10mV)	0.83 mV	0.33 mV
3.3	Amplitude measurement with non-fluorescence foil (<60mV/650-1200mV)	10.9 mV	943.2 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)	948.6 mV	860 mV
4.2	Maximum amplitude measurement (Blue: <1600 mV, Red <1400 mV)	1100.7 mV	1140.9 mV
4.3	Minimum phase measurement (Blue: >32°, Red: >3°)	37.32 °	8.52 °
4.4	Maximum phase measurement (Blue: <45°, Red: <10°)	43.1 °	8.88 °
4.5	Maximum standard deviation of Phase measurement: (< 0.07°)	0.04 °	0.03 °
4.6	Minimum temperature raw data measurement: (<-200 mV)		-454.9 mV
4.7	Maximum temperature raw data measurement: (>450 mV)		695.5 mV

Date: 09 Nov 2022

Sign:

Erlend S. Lid

Erlend Lid, Production Engineer