

Program Version: 5.3.1

Product: Oxygen Optode 4330IW

Serial No: 4445

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)	21.6	mA
2.3	Current drain in sleep (Max.: 270 μ A)	113	μ A
2.4	CANBus Current drain in sleep (Max.: 180 μ A)	101	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)	1.80	V
2.7	Excitation driver voltage, C4 Analog Board (4.3 ± 0.1 V)	4.30	V

Performance test:

	Channel:	Blue	Red
3.1	Average of Receiver readings (0 ± 150 mV)	1.9 mV	0.1 mV
3.2	Standard Deviation of Receiver readings (Max.: 45mV/10mV)	2.54 mV	1.43 mV
3.3	Amplitude measurement with non-fluorescence foil (<60mV/650-1200mV)	15.3 mV	846.2 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)	679.2 mV	677.7 mV
4.2	Maximum amplitude measurement (Blue: <1600 mV, Red <1400 mV)	1077.7 mV	1071.4 mV
4.3	Minimum phase measurement (Blue: >32°, Red: >3°)	34.45 °	7.86 °
4.4	Maximum phase measurement (Blue: <45°, Red: <10°)	41.99 °	8.38 °
4.5	Maximum standard deviation of Phase measurement: (< 0.07°)	0.03 °	0.02 °
4.6	Minimum temperature raw data measurement: (<-200 mV)		-400.6 mV
4.7	Maximum temperature raw data measurement: (>450 mV)		809.3 mV

Date: 31 Jan 2024

Sign:

Knut Johannessen

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