

Program Version: 5.1.1

Product: Oxygen Optode 4831IW

Serial No: 888

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)	23.4	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)	237	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)	3.31	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)	4.30	V

Performance test:

	Channel:	Blue	Red
3.1 Average of Receiver readings (0 \pm 150mV)		9.2 mV	3.5 mV
3.2 Standard Deviation of Receiver readings (Max.: 45mV/10mV)		3.80 mV	2.06 mV
3.3 Amplitude measurement with non-fluorescence foil (<60mV/650-1200mV)		12.1 mV	937.7 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)		770.8 mV	688.7 mV
4.2 Maximum amplitude measurement (Blue: <1600 mV, Red <1400 mV)		1201.8 mV	1059.8 mV
4.3 Minimum phase measurement (Blue: >32°, Red: >3°)		33.79 °	7.92 °
4.4 Maximum phase measurement (Blue: <45°, Red: <10°)		40.47 °	8.66 °
4.5 Maximum standard deviation of Phase measurement: (< 0.07°)		0.04 °	0.03 °
4.6 Minimum temperature raw data measurement: (<-200 mV)			-494.6 mV
4.7 Maximum temperature raw data measurement: (>450 mV)			666.7 mV

Date: 03 Jun 2020

Sign:

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