

a xylem brand

Form No. 712, July 2008

Layout No:

Circuit Diagram No:

Program Version: V4.5.7

Product: Oxygen Optode 4831

Serial No: 182

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)... 2.2 CANBus Current drain at 0.5 Hz sampling (Max.: 33 mA)..... 2.3 Current drain in sleep (Max.: 180 μA)... 2.4 CANBus Current drain in sleep (Max.: 180 μA)..... μΑ 2.5 DSP IO voltage, J4.18 (3.3 ±0.15V)..... 1.81 2.6 DSP Core voltage, J4.17(1.8 ±0.05 V)..... 2.7 Excitation driver voltage, C4 Analog Board (4.5 ±0.15 V)..... 4.58 Performance test: Channel: BLUE RED 3.1 Average of Receiver readings (0±150mV) 25.5 18.0 3.2 Standard Deviation of Receiver readings (Max.: 45mV/10mV) 11.58 4.50 3.3 Amplitude measurement with non-fluorescence foil (<60mV/650-1200mV) 16 1023.2 3.4 Amplitude measurement with fluorescence foil (700-1200mV) 999.1 1006.9 3.5 CANBus Output test Function test at 0°C Temperature (in air with reference foil): Channel: BLUE RED 4.1 Amplitude measurement (Blue: 150 - 500mV,Red 650-1800mV) 664.3 1469.7 mv 4.2 Phase measurement (Blue: 4 ±2°, Red: 4 ±2°) 9.7 9.1 0.003 0.002 4.3 Standard deviation of Phase measurement: (Max: 0.02°) 714.1 4.4 Raw data temperature measurement: (600 ±200mV) mv RED Function test at 20°C Temperature (in air with reference foil): BLUE Channel: 5.1 Amplitude measurement (Blue: 100 – 300mV, Red 650-1800mV) 640.3 1106.7 mv 5.2 Phase measurement (Blue: 5 ±2°, Red: 5 ±2°) 9.9 9.2 5.3 Standard deviation of Phase measurement: (Max: 0.02°) 0.010 0.011 102 mv 5.4 Raw data Temperature measurement: (0 ±200mV) Function test at 40°C Temperature (in air with reference foil): BLUE RED Channel: 6.1 Amplitude measurement (Blue: 150 – 500mV, Red 650-1800mV) 599 889.8 mv mv 6.2 Phase measurement (Blue: 5 ±2°, Red: 5 ±2°) 10.2 9.6 0.004 6.3 Standard deviation of Phase measurement: (Max: 0.02°) 0.005 -380.1 6.4 Raw data Temperature measurement: (-400 ±200mV) Pressure test: 7.1 Pressure (IW version: 20MPa, DW version 60MPa)......

Date: 21 May 2013

Sign:

Vidar Selsvik, Production Engineer



PRESSURE CERTIFIC

Product: Oxygen Optode 4831

Serial No: 182 Date: 16.05.2013 **Certificate No:** 83625260182

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: 21 May 2013

Sign:

Vidar Selsvik, Production Engineer

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