AANDERAA a xylem brand

TEST & SPECIFICATIONS

Form No. 764, February 2021

Layout No: 11
Circuit Diagram No: 8344720
Program Version: 8.4.1

Product: Pressure Sensor 4117B
Serial No: 2378

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1. **Visual and Mechanical Checks**:

1.1.	Soldering quality	☑
1.2.	Visual surface	☑
1.3.	Galvanic isolation between housing and electronics	☑

2. **Voltages and Current Drain performance**:

2.1.	DSP IO voltage, Tp3 (3.3±0.07V)	3.29	V
2.2.	DSP core voltage, Tp2 (1.9±0.04V)	1.91	V
2.3.	Analog voltage, Tp7 (3.3±0.15V)	3.32	V
2.4.	RS232 Average current at 0.5Hz (Max: 6mA)	2.1	mA
2.5.	RS232 Peak current (Max: 50mA)	33	mA
2.6.	RS232 Sleep current (Max: 200µA)	156	µA
2.7.	AiCaP Average current at 0.5Hz (Max: 6mA)	2.1	mA
2.8.	AiCaP Peak current (Max: 50mA)	16	mA
2.9.	AiCaP Sleep current (Max: 200µA)	132	µA
2.10.	RS422 Average current at 0.5Hz (Max: 7mA)	N/A	mA
2.11.	RS422 Peak current (Max: 50mA)	N/A	mA
2.12.	RS422 Sleep current (Max: 1500µA)	N/A	µA

3. **Electronic performance test:**:

3.1.	Raw data pressure reading at air pressure (-500000 to +1000000)	30537	LSB
3.2.	Raw data temp. reading in room temperature (6500000 to 10000000)	8344720	LSB
3.3.	Noise on pressure raw data (Max: 400LSB)	11	LSB
3.4.	Noise on temperature raw data (Max: 5000 LSB)	616	LSB

Date: 25 Jul 2023

Sign: Magnus Holsen

Magnus Holsen, System Engineer

AANDERAA a xylem brand CALIBRATION CERTIFICATE

Certificate No:4117B_2378_45344
Range: 0-4000

Product: Pressure Sensor 4117B
Serial No: 2378
Calibration Date: 22 Feb 2024

This is to certify that this product has been calibrated using the following instruments:

Calibration Bath model FNT	321-1-40
Pressure Controller PPC3 10M	Serial: 673
ASL Precision Thermometer model CTR2000	Serial: 056784-01

Parameter: Temperature

Calibration points and readings:

Temperature (°C)	0.96	13.89	26.89	39.84
Reading (LSB)	12090148.73	9987366.36	7814083.32	5866152.72

Giving these coefficients

Index	0	1	2	3
TempCoef	2.33788E01	-5.06343E01	7.95693E00	-1.89451E01

Parameter: Pressure

Giving these coefficients

Index	0	1	2	3
R1Coef0	5.58721E01	3.02593E01	-1.92525E00	1.07559E01
R1Coef1	1.21123E04	-1.36699E03	2.21248E02	-4.61225E02
R1Coef2	6.91074E01	5.44356E01	1.72563E02	-7.18400E02
R1Coef3	-1.36115E02	7.75091E01	-8.04069E02	2.60360E03
R1Coef4	3.96352E02	-2.67600E02	1.00406E03	-2.43315E03

Date: 22 Feb 2024

Sign:

Tor-Ove Kvalvaag, Calibration Engineer

PRESSURE CERTIFICATE

Form No. 667, Sept 2009

Product: Pressure Sensor 4117B
Serial No: 2378
Date: 01,08,2023

Certificate No: 2174371032378

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)
40	1

Date: 01 Aug 2023

Sign:

Anna Haaland Haugsgjer

Anna Haaland Haugsgjer
Production Engineer