

Product: Conductivity Sensor 5819C IW
Serial No: 385

1. Visual and Mechanical Checks:

- | | |
|---|-------------------------------------|
| 1.1. Soldering quality | <input checked="" type="checkbox"/> |
| 1.2. Visual surface | <input checked="" type="checkbox"/> |
| 1.3. Galvanic isolation between housing and electronics | <input checked="" type="checkbox"/> |

2. Current Drain and Voltages:

- | | |
|--|---------|
| 2.1. RS232 average current drain at 0.5Hz sampling (max: 47mA) | 38.7 mA |
| 2.2. RS422 average current drain at 0.5Hz sampling (max: 47mA) | NA mA |
| 2.3. RS232 peak current drain at 0.5Hz sampling (max. 100mA) | 76 mA |
| 2.4. RS232 quiescent current drain (max: 150µA) | 111 µA |
| 2.5. RS422 quiescent current drain (max: 1.7mA) | NA mA |
| 2.6. AiCaP average current drain at 0.5Hz sampling (max: 47mA) | 38.4 mA |
| 2.7. AiCaP quiescent current drain (max: 150µA) | 79 µA |
| 2.8. DSP voltage, (3.3 ±0.15V) | 3.31 V |
| 2.9. DSP core voltage, (1.9 ±0.05V) | 1.92 V |
| 2.10. Excitation driver voltage, (3.3 ±0.15V) | 3.31 V |

3. Electronic performance test:

- | | |
|--|-------------------------------------|
| 3.1. Average of Receiver readings (0 ±400mV) | 158 mV |
| 3.2. Standard Deviation of Receiver readings (max: 60mV) | 10 mV |
| 3.3. Cross-talk voltage with open loop (0 ±400mV) | -1 mV |
| 3.4. Amplification (ZAmp) with 0.2mS loop/5000 Ω (-1500 – -200) | -648 mV |
| 3.5. Reading (RawCond0.0) with open loop/0mS (200– 5000) | 922 lsb |
| 3.6. Reading (RawCond0.7) with 14.286mS loop/70Ω (30000 – 60000) | 38496 lsb |
| 3.7. CANBus Output test with 1 mS loop/1000 | <input checked="" type="checkbox"/> |

4. Temperature cycling test:

- | | |
|---|-------------------------------------|
| 4.1. Temperature cycling test in chamber (0-50°C) | <input checked="" type="checkbox"/> |
|---|-------------------------------------|

5. Temperature test (2 – 35°C):

- | | |
|--|---------|
| 5.1. Raw data temperature drift with 14.286mS loop/70Ω loop
in High Range (max 900) | 205 lsb |
|--|---------|

6. Pressure test (0 – 60MPa):

- | | |
|--|-------------------------------------|
| 6.1. Raw data drift with 14.286mS 70Ω loop in High Range (max 8) | <input checked="" type="checkbox"/> |
|--|-------------------------------------|

Date: 12 Apr 2024

Sign:

Laila A. Skålnes

Laila Skålnes, Production Engineer

Product: Conductivity Sensor 5819C IW
Serial No: 385
Date: 11.04.2024

Certificate No: 225383333385

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)
300	1

Date: 11 Apr 2024

Sign:

Laila A. Skålnes

Laila Skålnes, Production Engineer