

Product: Conductivity Sensor 5819C IW

Serial No: 385

1. Visual and Mechanical Checks:

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

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)

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)

Date: 12 Apr 2024

Sign:

Laila A. Skålnes

Laila Skålnes, Production Engineer



PRESSURE CERTIFICATE

Form No. 667, Sept 2009

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