

Paroscientific, Inc.

4500 148th Ave. NE
Redmond, WA 98052
Tel: (425) 883-8700 Fax: (425) 867-5407

Service Report Number: 12683

Rev. Initials:

Rev. Date

Date Received: 11/4/2022

Tel: 831-775-2041

Company: MONTEREY BAY AQUARIUM

Fax/Email: jordan@mbari.org

Serial Number	Part Number	Model Number	Warranty	NCR	Original Zero Date	Customer Comment/ Reason for Return
89948	1735-001-0	8CB7000-I-005	☐		4/25/2003	Zero adjust calibration

Customer Supplied Box

- ☐ YES
☒ NO

External Condition

- ☐ LIKE NEW
☒ FAIR
☐ POOR

Comments

Offset Error (ppm)

325

Current Draw (mA)

35

Firmware Version

R2.01

Accessories Returned

- ☐ Cable
☐ Manual

Other: none

MET Products

RH N/A
TEMP N/A

Pressure Port

- ☐ BLOCKED
☐ PARTIALLY BLOCKED
☒ CLEAR
☐ N/A-ACCELEROMETER

Comments

Oil Level

- ☒ FULL
☐ OIL VISIBLE
☐ LOW OIL
☐ NO OIL VISIBLE
☐ N/A

Elec. Isolation:

- ☒ PASS
☐ FAIL
☐ N/A

Analysis:

Reason for return – “update board to support nano-mode, update firmware (maybe already comes with new board), do a generic check if sensor works as expected, zero adjust. if at all possible (even though span adjust is not available right now): maybe check reported pressure at 450bar so we can get an idea of how far off it is (we have a 4500m deployment for which we need this sensor).”

Analysis of S/N 89948

The housing was scratched and has a label attached. The anti-fouling port had debris and the vent holes were clogged. The electrical connector pins had oxidation and the exterior surface had debris. Incoming functional test was performed. Both RS-232/485 communications were established. The relative error of the pressure sensor was 325ppm when compared to a reference laboratory barometer. The unique status settings was UN=3, PR=10, TR=40, PI=50, TI=50 and DL=1. The electrical isolation tests was performed and measured was >20G ohms at 300VDC. As a precaution, the electrical isolation at 500VDC range was not tested.

*Quotation is valid for one month from the "Date Analysis Completed." Products remaining at Paroscientific after 2 months will be returned and an evaluation fee will be charged for each product.

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Recommendations: 1Clean pressure port entrance. Vacuum oil fill. Perform pressure test at 450bar and measure pressure offset. Report value to service.

2Replace intelligent board with latest firmware, electrical end cap and anti-fouling port. Clean electrical connector. Reassemble and test per drawing. Vacuum oil fill and apply external pressure test. Perform zero adjust calibration which includes NIST certificate. Return with unique status settings; UN=3, PR=10, TR=40, PI=50, TI=50 and DL=1.

3Total amount = \$5,100.00

Date Analysis
Completed:

11/15/2022

Completed By:

M. Hao

Charges:*

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