Paroscientific, Inc.

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

Service Report Number: 13152

Rev. Initials: **Rev. Date**

Date Received: 7/25/2025 **Tel:** 907-224-4311

Company: UNIVERSITY OF ALASKA FAIRBANK **Fax/Email:** jmgrischuk@alaska.edu

Serial Number	Part Number	Model Number	Warranty	NCR	Original Zero Date	Customer Comment/ Reason for Return
146582	1564-301	MET4A	☐		8/8/2019	relative humidity probe measures high RH%

Customer Supplied Box
- ☐ YES
- ☑ NO

External Condition
- ☐ LIKE NEW
- ☑ FAIR
- ☐ POOR

Comments:

Offset Error (ppm): -28

Current Draw (mA): 183

Firmware Version: M3.10

Accessories Returned
- ☐ Cable
- ☐ Manual

Other: none

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

MET Products

RH: 55.09

TEMP: 20.43

Analysis:

Reason for return - The humidity probe on this unit may be failing. We saw very high, unbelievable values during last use. The sensor was removed and replaced with a 'fresh' probe however similar numbers were observed. It is possible moisture is being held in the solar shield.

Analysis of S/N 146582
The unit exterior surfaces have debris and the paint is chipped. There are signs of corrosion in the different surface areas. An incoming functional test was performed. Both RS-232/485 communications were established. The relative error of the pressure sensor was -28ppm when compared to a reference laboratory barometer. The unique setting was MD=8. The aspirator fan was functional.

The Relative Humidity/Temperature probe (or RH/T) air baffle cover was removed for inspection. The air baffle and its surrounding area were dry. The RH/T probe exterior surfaces have dust debris and dry. The probe sensing elements and electrical connector pins were inspected and found no signs of wetness. The

housing was removed to inspect the internal components. Investigation found that there is oxidation/corrosion at components C24, C16 and U6 area. Also, there is oxidation found in electrical connector pin base and solder pin connection (secondary side) of the mainboard. The main cause is unknown, and the mainboard needs to be replaced.

Recommendations: Replace mainboard (or intelligent board). Clean unit and inspect all parts. Reassemble and test per drawing. Perform zero adjust calibration to the barometer which includes NIST certificate, Return with unique setting MD=8. $3,775.00

Date Analysis Completed: 7/29/2025 **Completed By:** M. Hao

Charges:*

*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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