



Optical Scientific Inc.

OPTICAL SCIENTIFIC, INC.

Optical Precipitation Sensor (ORG-815-DXXX)

CERTIFICATE OF CALIBRATION

Date: 13 March 2013 OSi Ref No. S413049
Customer: Ocean Tech Cust. PO No. Z10026696
P/N: ORG-815-DR S/N: 09050297

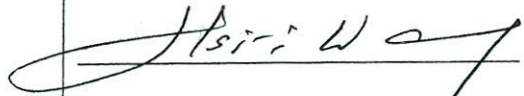
Optical Scientific hereby certifies compliance of the above referenced item(s) as follows:

Quality Standard: ISO-9001

OSi Test Standard: ORG9903, ORG9905, ORG0007

CALIBRATION DATA

Free Run Output (40 +/- 5mV)	<u>40</u> mV
ORG Calibration (Voltage)	<u>3.576</u> Vdc
Power Consumption (<800)	<u>436</u> ma


Authorized Q.A. Representative

05/11/10

OSi is an ISO-9001 Registered Company



Optical Scientific, Inc.
Return Material Authorization Form

RMA NUMBER:

313013

CUSTOMER:

DETAILS:

Contact: Ben Colello
Org./Co: Ocean Technology Group
Adrs: 1 Sand Island Access Rd.
Honolulu, HI 96819
Phone: 808-832-3077
Fax:

DATE ASSIGNED: 2/22/13
INITATED BY: Darryl
DATE RECEIVED: 3/5/2013
REPAIR APPROVED BY: Tom
 - REPAIR ESTIMATE - OTHER
 - EXCHANGE

Custom Service Checklist (Required)

- 1 Completed info & transferred to Production
- 2 Sent quote or contacted customer on resolution
- 3 Repair approved. Return RMA to Production
SO# S413049 Date: 03/29/2013
- 4 Shipped and Closed Date: 04/01/2013

Production Checklist

- 1 Materials recv'd, yellow tag placed on unit
- 2 Identified problem
- 3 Return RMA to CS
Date: 03/05/2013

(Required)

- 4 Received from CS
- 5 Repaired or replaced
- 6 Send RMA back to CS including Packing Slip
Date: 03/28/2013

ITEM	MODEL NUMBER / ITEM DESCRIPTION (1 per RMA Form)	SERIAL#	WAR. OUT
1	ORG-815-DR	09050297	

CUSTOMER DESCRIPTION OF PROBLEM:

Rain gauge sent in for calibration/ checkup

INCOMING INSPECTION AND CHECKS

Receiving Check By: TBP Date: 03/05/013

- Receiving: OK

- External: OK

Prod. Check By: Tom Date: 03/05/2013

- Internal: OK

- Power up: OK

- With TST --- Desired: Sticker value 4.07

Actual:

FAILURE ANALYSIS: Base value with / without TST would not change. No response from main board during Calibration. R49 and R24

CORRECTIVE ACTIONS

Performed by: Tom

Date: 03/13/2013

- Optical Alignment - Electrical Alignment - Desiccant - Re-Seal - Factory Acceptance Test

- Flow Test - Chamber Test - Rain Test - Firmware update to version:

- PCB's replaced: replace main board (1102-308)

- Other: real rain test

- REMARKS:

NOTES: Original RMA should be returned to customer service for closing. Please label any photocopies of RMA as a COPY. This RMA will stay open until BOTH checklists above are completed.