



Submitted By: MESA LABS - DATATRACE DEMO/RENTAL
12100 W. 6TH AVENUE
LAKEWOOD, CO 80228-1252

Sales / P.O Number: N/A

UUT Serial Number: **M3H18157**

Customer UUT ID: **N/A**

Description: MPIII HUMIDITY

Mfgr. Part Number: 137001-541

Measurement Range: 0 to 100 % RH (non-condensing)

Reference Instrument: Thunder Scientific TS-2500

Tolerances: DataTrace Standard

Reference Instrument ID: 10228

As Left Condition: **In Tolerance**

Reference Calibration Date: 15Jan2014

Physical Condition: **Good**

Reference Calibration Due Date: 15Jan2015

Cal. Procedure Used: DT-0079 RH Calibration

Cal. Due Date: **Per Customer SOP**

AS LEFT DATA

M3H18157 %RH	REFERENCE %RH	DIFFERENCE %RH	TOLERANCE ± %RH	AS LEFT RESULT	U ± %RH	M3H18157 TEST ° C
0.40	0.00	0.40	2.00	Pass	0.73	22.8
20.49	20.00	0.49	2.00	Pass	0.73	25.0
25.40	25.00	0.40	2.00	Pass	0.73	25.0
30.36	29.97	0.39	2.00	Pass	0.73	25.0
40.51	40.02	0.49	2.00	Pass	0.73	25.0
50.58	50.00	0.58	2.00	Pass	0.73	25.0
60.55	59.99	0.56	2.00	Pass	0.73	25.0
70.42	69.94	0.48	2.00	Pass	0.73	25.0
80.45	80.00	0.45	2.00	Pass	0.73	25.0
90.43	89.99	0.44	2.00	Pass	0.73	25.0
95.12	95.00	0.12	2.00	Pass	0.73	25.0
24.13	24.00	0.13	2.00	Pass	0.73	54.9
30.15	30.00	0.15	2.00	Pass	0.73	54.9
40.33	40.01	0.32	2.00	Pass	0.73	54.9
60.27	59.98	0.29	2.00	Pass	0.73	54.9
79.93	80.00	-0.07	2.00	Pass	0.73	54.9
89.98	90.00	-0.02	2.00	Pass	0.73	54.9
94.71	94.45	0.26	2.00	Pass	0.73	54.9

Avg. ambient conditions during test: 24 °C, 39 % RH

Performed by: Phillip Perri

Measurements are made by exposing the unit under test (UUT) to a known relative humidity in a humidity generator which utilizes the N.I.S.T. two-pressure method. Zero RH point is generated by exposing the instrument to air passed through a calcium sulfate desiccant. The reported uncertainty (U) is expanded at a coverage factor of 2 (k=2). When used in Ethylene Oxide an accuracy of ±5% is expected and a 90 day calibration cycle is recommended.

Battery replacement is part of standard service and calibration procedures. Additional services (if any) are listed on a separate service report.

Mesa Laboratories, Inc. certifies that the above instrument meets or exceeds published specifications, and that the calibration results in this certificate were obtained using equipment capable of producing results that are traceable through NIST to the International System of Units (SI). Calibration results are in compliance with ISO/IEC 17025:2005 and ANSI/NCCL Z540.3-2006. Data acquisition software has been validated and complies with USFDA 21CFR11 requirements for electronic records. This calibration report applies only to the item described. This document may not be reproduced except in full. © 2013 Mesa Laboratories, Inc. All rights reserved.

Reviewed by: _____
Phillip Perri

QC Inspector: _____

Date: 09Oct2014 _____

Date: _____