

1 Waters 2414 RIU
2 Self Test Results File
3 10/3/2019
4 1:32 PM
5
6
7
8 10/3/2019 12:14 PM
9 RI1260 Switch Card BIT: Passed
10 RI 1260-114 Self Test: Passed
11
12 WRITE VALUE READ VALUE STATUS
13 =====
14 Port A 245 Port G 245 Pass
15 Port B 70 Port H 70 Pass
16 Port C 94 Port I 94 Pass
17 Port D 142 Port J 142 Pass
18 Port E 83 Port K 83 Pass
19 Port F 142 Port L 142 Pass
20
21 Port G 76 Port A 76 Pass
22 Port H 61 Port B 61 Pass
23 Port I 168 Port C 168 Pass
24 Port J 205 Port D 205 Pass
25 Port K 108 Port E 108 Pass
26 Port L 165 Port F 165 Pass
27 *****
28
29 10/3/2019 11:57 AM
30
31 RI4152 BIT: Passed
32
33 RI 1260-117 Self Test: Failed
34
35 -117 Relay -117 State -138 MUX -138 Relay UL(Ohms) LL(Ohms) Status MV
36 =====
37 =====
37 0 0 2 4 100000 0 Pass 99.00000E+36
38 1 0 2 4 100000 0 Pass 99.00000E+36
39 2 0 2 4 100000 0 Pass 99.00000E+36
40 3 0 2 4 100000 0 Pass 99.00000E+36
41 4 0 2 5 100000 0 Pass 99.00000E+36
42 5 0 2 5 100000 0 Pass 99.00000E+36
43 6 0 2 5 100000 0 Pass 99.00000E+36
44 7 0 2 5 100000 0 Pass 99.00000E+36
45 8 0 2 6 100000 0 Pass 99.00000E+36
46 9 0 2 6 100000 0 Pass 99.00000E+36
47 10 0 2 6 100000 0 Pass 99.00000E+36
48 11 0 2 6 100000 0 Pass 99.00000E+36
49 12 0 3 0 100000 0 Pass 99.00000E+36
50 13 0 3 0 100000 0 Pass 99.00000E+36
51 14 0 3 0 100000 0 Pass 99.00000E+36
52 15 0 3 0 100000 0 Pass 99.00000E+36
53 16 0 3 1 100000 0 Pass 99.00000E+36
54 17 0 3 1 100000 0 Pass 99.00000E+36
55 18 0 3 1 100000 0 Pass 99.00000E+36
56 19 0 3 1 100000 0 Pass 99.00000E+36
57 20 0 3 2 100000 0 Pass 99.00000E+36
58 21 0 3 2 100000 0 Pass 99.00000E+36
59 22 0 3 2 100000 0 Pass 99.00000E+36
60 23 0 3 2 100000 0 Pass 99.00000E+36
61 24 0 3 3 100000 0 Pass 99.00000E+36
62 25 0 3 3 100000 0 Pass 99.00000E+36
63 26 0 3 3 100000 0 Pass 99.00000E+36
64 27 0 3 3 100000 0 Pass 99.00000E+36
65 28 0 3 4 100000 0 Pass 99.00000E+36
66 29 0 3 4 100000 0 Pass 99.00000E+36
67 30 0 3 4 100000 0 Pass 99.00000E+36
68 31 0 3 4 100000 0 Pass 99.00000E+36

69	32	0	3	5	100000	0	Pass	99.00000E+36
70	33	0	3	5	100000	0	Pass	99.00000E+36
71	34	0	3	5	100000	0	Pass	99.00000E+36
72	35	0	3	5	100000	0	Pass	99.00000E+36
73	36	0	3	6	100000	0	Pass	99.00000E+36
74	37	0	3	6	100000	0	Pass	99.00000E+36
75	38	0	3	6	100000	0	Pass	99.00000E+36
76	39	0	3	6	100000	0	Pass	99.00000E+36
77	40	0	3	7	100000	0	Pass	99.00000E+36
78	41	0	3	7	100000	0	Pass	99.00000E+36
79	42	0	3	7	100000	0	Pass	99.00000E+36
80	43	0	3	7	100000	0	Pass	99.00000E+36
81	44	0	4	1	100000	0	Pass	99.00000E+36
82	45	0	4	1	100000	0	Pass	99.00000E+36
83	46	0	4	1	100000	0	Pass	99.00000E+36
84	47	0	4	1	100000	0	Pass	99.00000E+36
85	48	0	4	2	100000	0	Pass	99.00000E+36
86	49	0	4	2	100000	0	Pass	99.00000E+36
87	50	0	4	2	100000	0	Pass	99.00000E+36
88	51	0	4	2	100000	0	Pass	99.00000E+36
89	0	0	4	3	5	0	Fail	6.11325E+0
90	1	0	4	3	5	0	Fail	6.11304E+0
91	2	0	4	3	5	0	Fail	6.11401E+0
92	3	0	4	3	5	0	Fail	6.11378E+0
93	4	0	4	4	5	0	Fail	6.09489E+0
94	5	0	4	4	5	0	Fail	6.09539E+0
95	6	0	4	4	5	0	Fail	6.09431E+0
96	7	0	4	4	5	0	Fail	6.09420E+0
97	8	0	4	5	5	0	Fail	6.04326E+0
98	9	0	4	5	5	0	Fail	6.04421E+0
99	10	0	4	5	5	0	Fail	6.04367E+0
100	11	0	4	5	5	0	Fail	6.04502E+0
101	12	0	4	6	5	0	Fail	6.08444E+0
102	13	0	4	6	5	0	Fail	6.08373E+0
103	14	0	4	6	5	0	Fail	6.08272E+0
104	15	0	4	6	5	0	Fail	6.08408E+0
105	16	0	4	7	5	0	Fail	6.88215E+0
106	17	0	4	7	5	0	Fail	6.88148E+0
107	18	0	4	7	5	0	Fail	6.88207E+0
108	19	0	4	7	5	0	Fail	6.88060E+0
109	20	0	5	0	5	0	Fail	5.72518E+0
110	21	0	5	0	5	0	Fail	5.72439E+0
111	22	0	5	0	5	0	Fail	5.72514E+0
112	23	0	5	0	5	0	Fail	5.72592E+0
113	24	0	5	1	5	0	Fail	6.03289E+0
114	25	0	5	1	5	0	Fail	6.03276E+0
115	26	0	5	1	5	0	Fail	6.03272E+0
116	27	0	5	1	5	0	Fail	6.03221E+0
117	28	0	5	2	5	0	Fail	5.64493E+0
118	29	0	5	2	5	0	Fail	5.64585E+0
119	30	0	5	2	5	0	Fail	5.64585E+0
120	31	0	5	2	5	0	Fail	5.64590E+0
121	32	0	5	3	5	0	Fail	5.66318E+0
122	33	0	5	3	5	0	Fail	5.66286E+0
123	34	0	5	3	5	0	Fail	5.66260E+0
124	35	0	5	3	5	0	Fail	5.66347E+0
125	36	0	5	4	5	0	Fail	5.58319E+0
126	37	0	5	4	5	0	Fail	5.58228E+0
127	38	0	5	4	5	0	Fail	5.58272E+0
128	39	0	5	4	5	0	Fail	5.58243E+0
129	40	0	5	5	5	0	Fail	5.65521E+0
130	41	0	5	5	5	0	Fail	5.65529E+0
131	42	0	5	5	5	0	Fail	5.65559E+0
132	43	0	5	5	5	0	Fail	5.65550E+0
133	44	0	5	6	5	0	Fail	5.68672E+0
134	45	0	5	6	5	0	Fail	5.68704E+0
135	46	0	5	6	5	0	Fail	5.68680E+0
136	47	0	5	6	5	0	Fail	5.68728E+0
137	48	0	5	7	5	0	Fail	5.73114E+0

138	49	0	5	7	5	0	Fail	5.73075E+0
139	50	0	5	7	5	0	Fail	5.72996E+0
140	51	0	5	7	5	0	Fail	5.72981E+0
141	0	1	2	4	5	0	Fail	6.29082E+0
142	1	1	2	4	5	0	Fail	6.35131E+0
143	2	1	2	4	5	0	Fail	6.18914E+0
144	3	1	2	4	5	0	Fail	6.45015E+0
145	4	1	2	5	5	0	Fail	6.13842E+0
146	5	1	2	5	5	0	Fail	6.36193E+0
147	6	1	2	5	5	0	Fail	6.18892E+0
148	7	1	2	5	5	0	Fail	6.29286E+0
149	8	1	2	6	5	0	Fail	6.13543E+0
150	9	1	2	6	5	0	Fail	6.25575E+0
151	10	1	2	6	5	0	Fail	6.14053E+0
152	11	1	2	6	5	0	Fail	6.02337E+0
153	12	1	3	0	5	0	Fail	6.65979E+0
154	13	1	3	0	5	0	Fail	6.25355E+0
155	14	1	3	0	5	0	Fail	6.83619E+0
156	15	1	3	0	5	0	Fail	7.09216E+0
157	16	1	3	1	5	0	Fail	6.25278E+0
158	17	1	3	1	5	0	Fail	6.22589E+0
159	18	1	3	1	5	0	Fail	6.16715E+0
160	19	1	3	1	5	0	Fail	6.19693E+0
161	20	1	3	2	5	0	Fail	6.24571E+0
162	21	1	3	2	5	0	Fail	6.96253E+0
163	22	1	3	2	5	0	Fail	6.37268E+0
164	23	1	3	2	5	0	Fail	6.30565E+0
165	24	1	3	3	5	0	Fail	6.19871E+0
166	25	1	3	3	5	0	Fail	6.25959E+0
167	26	1	3	3	5	0	Fail	6.15156E+0
168	27	1	3	3	5	0	Fail	6.13806E+0
169	28	1	3	4	5	0	Fail	6.28156E+0
170	29	1	3	4	5	0	Fail	6.20458E+0
171	30	1	3	4	5	0	Fail	6.29877E+0
172	31	1	3	4	5	0	Fail	7.38040E+0
173	32	1	3	5	5	0	Fail	10.76338E+0
174	33	1	3	5	5	0	Fail	6.36587E+0
175	34	1	3	5	5	0	Fail	6.24561E+0
176	35	1	3	5	5	0	Fail	6.23240E+0
177	36	1	3	6	5	0	Fail	6.20617E+0
178	37	1	3	6	5	0	Fail	7.39128E+0
179	38	1	3	6	5	0	Fail	6.29491E+0
180	39	1	3	6	5	0	Fail	6.33767E+0
181	40	1	3	7	5	0	Fail	6.26168E+0
182	41	1	3	7	5	0	Fail	6.27587E+0
183	42	1	3	7	5	0	Fail	6.21084E+0
184	43	1	3	7	5	0	Fail	6.12033E+0
185	44	1	4	1	5	0	Fail	6.67740E+0
186	45	1	4	1	5	0	Fail	6.25219E+0
187	46	1	4	1	5	0	Fail	5.99995E+0
188	47	1	4	1	5	0	Fail	6.14988E+0
189	48	1	4	2	5	0	Fail	6.23590E+0
190	49	1	4	2	5	0	Fail	6.96669E+0
191	50	1	4	2	5	0	Fail	7.03825E+0
192	51	1	4	2	5	0	Fail	5.92206E+0
193	0	1	4	3	5	0	Fail	6.14790E+0
194	1	1	4	3	5	0	Fail	6.17385E+0
195	2	1	4	3	5	0	Fail	6.16270E+0
196	3	1	4	3	5	0	Fail	6.19301E+0
197	4	1	4	4	5	0	Fail	6.13063E+0
198	5	1	4	4	5	0	Fail	6.15924E+0
199	6	1	4	4	5	0	Fail	6.15775E+0
200	7	1	4	4	5	0	Fail	6.20990E+0
201	8	1	4	5	5	0	Fail	6.07413E+0
202	9	1	4	5	5	0	Fail	6.07729E+0
203	10	1	4	5	5	0	Fail	6.08034E+0
204	11	1	4	5	5	0	Fail	6.13536E+0
205	12	1	4	6	5	0	Fail	6.12319E+0
206	13	1	4	6	5	0	Fail	6.14646E+0

207	14	1	4	6	5	0	Fail	6.09829E+0
208	15	1	4	6	5	0	Fail	6.14102E+0
209	16	1	4	7	5	0	Fail	6.90676E+0
210	17	1	4	7	5	0	Fail	6.91410E+0
211	18	1	4	7	5	0	Fail	6.93033E+0
212	19	1	4	7	5	0	Fail	6.95920E+0
213	20	1	5	0	5	0	Fail	5.77064E+0
214	21	1	5	0	5	0	Fail	5.76351E+0
215	22	1	5	0	5	0	Fail	5.78769E+0
216	23	1	5	0	5	0	Fail	5.87977E+0
217	24	1	5	1	5	0	Fail	6.06392E+0
218	25	1	5	1	5	0	Fail	6.07619E+0
219	26	1	5	1	5	0	Fail	6.07908E+0
220	27	1	5	1	5	0	Fail	6.07707E+0
221	28	1	5	2	5	0	Fail	5.70407E+0
222	29	1	5	2	5	0	Fail	5.72161E+0
223	30	1	5	2	5	0	Fail	5.69572E+0
224	31	1	5	2	5	0	Fail	5.66476E+0
225	32	1	5	3	5	0	Fail	5.66950E+0
226	33	1	5	3	5	0	Fail	5.73134E+0
227	34	1	5	3	5	0	Fail	5.73615E+0
228	35	1	5	3	5	0	Fail	5.75855E+0
229	36	1	5	4	5	0	Fail	5.66896E+0
230	37	1	5	4	5	0	Fail	5.59439E+0
231	38	1	5	4	5	0	Fail	5.66065E+0
232	39	1	5	4	5	0	Fail	5.68645E+0
233	40	1	5	5	5	0	Fail	5.69171E+0
234	41	1	5	5	5	0	Fail	5.68886E+0
235	42	1	5	5	5	0	Fail	5.69980E+0
236	43	1	5	5	5	0	Fail	5.74493E+0
237	44	1	5	6	5	0	Fail	5.71794E+0
238	45	1	5	6	5	0	Fail	5.73799E+0
239	46	1	5	6	5	0	Fail	5.73329E+0
240	47	1	5	6	5	0	Fail	5.77364E+0
241	48	1	5	7	5	0	Fail	5.76458E+0
242	49	1	5	7	5	0	Fail	5.74899E+0
243	50	1	5	7	5	0	Fail	5.78882E+0
244	51	1	5	7	5	0	Fail	5.82602E+0
245	*****							
246								
247	10/3/2019	12:10 PM						
248								
249	RI4152 BIT: Passed							
250								
251	RI	1260-118	Self Test:		Failed			
252								
253	-118 Relay	-118 State	-138 MUX	-138 Relay	UL(Ohms)	LL(Ohms)	Status	MV
254	=====							
255	0	0	0	0	100000	0	Pass	99.00000E+36
256	1	0	0	0	100000	0	Pass	99.00000E+36
257	2	0	0	0	100000	0	Pass	99.00000E+36
258	3	0	0	0	100000	0	Pass	99.00000E+36
259	4	0	0	1	100000	0	Pass	99.00000E+36
260	5	0	0	1	100000	0	Pass	99.00000E+36
261	6	0	0	1	100000	0	Pass	99.00000E+36
262	7	0	0	1	100000	0	Pass	99.00000E+36
263	8	0	0	2	100000	0	Pass	99.00000E+36
264	9	0	0	2	100000	0	Pass	99.00000E+36
265	10	0	0	2	100000	0	Pass	99.00000E+36
266	11	0	0	2	100000	0	Pass	99.00000E+36
267	12	0	0	3	100000	0	Pass	99.00000E+36
268	13	0	0	3	100000	0	Pass	99.00000E+36
269	14	0	0	3	100000	0	Pass	99.00000E+36
270	15	0	0	3	100000	0	Pass	99.00000E+36
271	16	0	0	4	100000	0	Pass	99.00000E+36
272	17	0	0	4	100000	0	Pass	99.00000E+36
273	18	0	0	4	100000	0	Pass	99.00000E+36
274	19	0	0	4	100000	0	Pass	99.00000E+36

275	20	0	0	5	100000	0	Pass	99.00000E+36
276	21	0	0	5	100000	0	Pass	99.00000E+36
277	22	0	0	5	100000	0	Pass	99.00000E+36
278	23	0	0	5	100000	0	Pass	99.00000E+36
279	24	0	0	6	100000	0	Pass	99.00000E+36
280	25	0	0	6	100000	0	Pass	99.00000E+36
281	26	0	0	6	100000	0	Pass	99.00000E+36
282	27	0	0	6	100000	0	Pass	99.00000E+36
283	28	0	0	7	100000	0	Pass	99.00000E+36
284	29	0	0	7	100000	0	Pass	99.00000E+36
285	30	0	0	7	100000	0	Pass	99.00000E+36
286	31	0	0	7	100000	0	Pass	99.00000E+36
287	32	0	1	0	100000	0	Pass	99.00000E+36
288	33	0	1	0	100000	0	Pass	99.00000E+36
289	34	0	1	0	100000	0	Pass	99.00000E+36
290	35	0	1	0	100000	0	Pass	99.00000E+36
291	36	0	1	1	100000	0	Pass	99.00000E+36
292	37	0	1	1	100000	0	Pass	99.00000E+36
293	38	0	1	1	100000	0	Pass	99.00000E+36
294	39	0	1	1	100000	0	Pass	99.00000E+36
295	40	0	1	2	100000	0	Pass	99.00000E+36
296	41	0	1	2	100000	0	Pass	99.00000E+36
297	42	0	1	2	100000	0	Pass	99.00000E+36
298	43	0	1	2	100000	0	Pass	99.00000E+36
299	44	0	1	3	100000	0	Pass	99.00000E+36
300	45	0	1	3	100000	0	Pass	99.00000E+36
301	46	0	1	3	100000	0	Pass	99.00000E+36
302	47	0	1	3	100000	0	Pass	99.00000E+36
303	48	0	1	4	100000	0	Pass	99.00000E+36
304	49	0	1	4	100000	0	Pass	99.00000E+36
305	50	0	1	4	100000	0	Pass	99.00000E+36
306	51	0	1	4	100000	0	Pass	99.00000E+36
307	52	0	1	5	100000	0	Pass	99.00000E+36
308	53	0	1	5	100000	0	Pass	99.00000E+36
309	54	0	1	5	100000	0	Pass	99.00000E+36
310	55	0	1	5	100000	0	Pass	99.00000E+36
311	56	0	1	6	100000	0	Pass	99.00000E+36
312	57	0	1	6	100000	0	Pass	99.00000E+36
313	58	0	1	6	100000	0	Pass	99.00000E+36
314	59	0	1	6	100000	0	Pass	99.00000E+36
315	60	0	1	7	100000	0	Pass	99.00000E+36
316	61	0	1	7	100000	0	Pass	99.00000E+36
317	62	0	1	7	100000	0	Pass	99.00000E+36
318	63	0	1	7	100000	0	Pass	99.00000E+36
319	64	0	2	0	100000	0	Pass	99.00000E+36
320	65	0	2	0	100000	0	Pass	99.00000E+36
321	66	0	2	0	100000	0	Pass	99.00000E+36
322	67	0	2	0	100000	0	Pass	99.00000E+36
323	68	0	2	1	100000	0	Pass	99.00000E+36
324	69	0	2	1	100000	0	Pass	99.00000E+36
325	70	0	2	1	100000	0	Pass	99.00000E+36
326	71	0	2	1	100000	0	Pass	99.00000E+36
327	72	0	2	2	100000	0	Pass	99.00000E+36
328	73	0	2	2	100000	0	Pass	99.00000E+36
329	74	0	2	2	100000	0	Pass	99.00000E+36
330	75	0	2	2	100000	0	Pass	99.00000E+36
331	76	0	2	3	100000	0	Pass	99.00000E+36
332	77	0	2	3	100000	0	Pass	99.00000E+36
333	78	0	2	3	100000	0	Pass	99.00000E+36
334	79	0	2	3	100000	0	Pass	99.00000E+36
335	0	1	0	0	5	0	Fail	5.82067E+0
336	1	1	0	0	5	0	Fail	5.76683E+0
337	2	1	0	0	5	0	Fail	5.92905E+0
338	3	1	0	0	5	0	Fail	5.71328E+0
339	4	1	0	1	5	0	Fail	5.85120E+0
340	5	1	0	1	5	0	Fail	6.72301E+0
341	6	1	0	1	5	0	Fail	5.71021E+0
342	7	1	0	1	5	0	Fail	5.78747E+0
343	8	1	0	2	5	0	Fail	6.62608E+0

344	9	1	0	2	5	0	Fail	7.87160E+0
345	10	1	0	2	5	0	Fail	9.20051E+0
346	11	1	0	2	5	0	Fail	6.45656E+0
347	12	1	0	3	5	0	Fail	5.94588E+0
348	13	1	0	3	5	0	Fail	7.49148E+0
349	14	1	0	3	5	0	Fail	6.09159E+0
350	15	1	0	3	5	0	Fail	5.70564E+0
351	16	1	0	4	5	0	Fail	5.97057E+0
352	17	1	0	4	5	0	Fail	5.65803E+0
353	18	1	0	4	5	0	Fail	7.20798E+0
354	19	1	0	4	5	0	Fail	7.97455E+0
355	20	1	0	5	5	0	Fail	6.44290E+0
356	21	1	0	5	5	0	Fail	6.87227E+0
357	22	1	0	5	5	0	Fail	6.35367E+0
358	23	1	0	5	5	0	Fail	6.10485E+0
359	24	1	0	6	5	0	Fail	7.65364E+0
360	25	1	0	6	5	0	Fail	5.69050E+0
361	26	1	0	6	5	0	Fail	7.29764E+0
362	27	1	0	6	5	0	Fail	5.66926E+0
363	28	1	0	7	5	0	Fail	6.81832E+0
364	29	1	0	7	5	0	Fail	6.93365E+0
365	30	1	0	7	5	0	Fail	5.77878E+0
366	31	1	0	7	5	0	Fail	6.61911E+0
367	32	1	1	0	5	0	Fail	7.23951E+0
368	33	1	1	0	5	0	Fail	6.00206E+0
369	34	1	1	0	5	0	Fail	5.94100E+0
370	35	1	1	0	5	0	Fail	5.80146E+0
371	36	1	1	1	5	0	Fail	8.17591E+0
372	37	1	1	1	5	0	Fail	6.07424E+0
373	38	1	1	1	5	0	Fail	5.97127E+0
374	39	1	1	1	5	0	Fail	8.38601E+0
375	40	1	1	2	5	0	Fail	6.13175E+0
376	41	1	1	2	5	0	Fail	5.83690E+0
377	42	1	1	2	5	0	Fail	6.29256E+0
378	43	1	1	2	5	0	Fail	5.83076E+0
379	44	1	1	3	5	0	Fail	5.92808E+0
380	45	1	1	3	5	0	Fail	6.01851E+0
381	46	1	1	3	5	0	Fail	6.55623E+0
382	47	1	1	3	5	0	Fail	5.99404E+0
383	48	1	1	4	5	0	Fail	6.57061E+0
384	49	1	1	4	5	0	Fail	5.92428E+0
385	50	1	1	4	5	0	Fail	6.08019E+0
386	51	1	1	4	5	0	Fail	5.84736E+0
387	52	1	1	5	5	0	Fail	6.40179E+0
388	53	1	1	5	5	0	Fail	9.11587E+0
389	54	1	1	5	5	0	Fail	6.43980E+0
390	55	1	1	5	5	0	Fail	6.19319E+0
391	56	1	1	6	5	0	Fail	6.50072E+0
392	57	1	1	6	5	0	Fail	7.51102E+0
393	58	1	1	6	5	0	Fail	6.25415E+0
394	59	1	1	6	5	0	Fail	6.86282E+0
395	60	1	1	7	5	0	Fail	7.02671E+0
396	61	1	1	7	5	0	Fail	6.54129E+0
397	62	1	1	7	5	0	Fail	6.92826E+0
398	63	1	1	7	5	0	Fail	6.71224E+0
399	64	1	2	0	5	0	Fail	8.76428E+0
400	65	1	2	0	5	0	Fail	6.29195E+0
401	66	1	2	0	5	0	Fail	6.86324E+0
402	67	1	2	0	5	0	Fail	9.46404E+0
403	68	1	2	1	5	0	Fail	6.51254E+0
404	69	1	2	1	5	0	Fail	6.26108E+0
405	70	1	2	1	5	0	Fail	5.68801E+0
406	71	1	2	1	5	0	Fail	5.75417E+0
407	72	1	2	2	5	0	Fail	6.13235E+0
408	73	1	2	2	5	0	Fail	6.58617E+0
409	74	1	2	2	5	0	Fail	6.73169E+0
410	75	1	2	2	5	0	Fail	5.73571E+0
411	76	1	2	3	5	0	Fail	5.64210E+0
412	77	1	2	3	5	0	Fail	5.72408E+0

```
413 78      1      2      3      5      0      Fail      5.78326E+0
414 79      1      2      3      5      0      Fail      5.94308E+0
415 *****
416
417 10/3/2019    12:14 PM
418
419 RI4152 BIT: Passed
420
421 RI 1260-120 Self Test: Failed
422
423 -120 Relay  -120 State  -138 MUX      -138 Relay  UL(Ohms)      LL(Ohms)      Status      MV
424 =====
425 =====
425 0      0      6      1      100000      0      Pass      99.00000E+36
426 1      0      6      1      100000      0      Pass      99.00000E+36
427 2      0      6      1      100000      0      Pass      99.00000E+36
428 3      0      6      1      100000      0      Pass      99.00000E+36
429 4      0      6      1      100000      0      Pass      99.00000E+36
430 5      0      6      1      100000      0      Pass      99.00000E+36
431 6      0      6      1      100000      0      Pass      99.00000E+36
432 7      0      6      1      100000      0      Pass      99.00000E+36
433 8      0      6      1      100000      0      Pass      99.00000E+36
434 9      0      6      1      100000      0      Pass      99.00000E+36
435 10     0      6      2      100000      0      Pass      99.00000E+36
436 11     0      6      2      100000      0      Pass      99.00000E+36
437 12     0      6      2      100000      0      Pass      99.00000E+36
438 13     0      6      2      100000      0      Pass      99.00000E+36
439 14     0      6      2      100000      0      Pass      99.00000E+36
440 15     0      6      2      100000      0      Pass      99.00000E+36
441 16     0      6      2      100000      0      Pass      99.00000E+36
442 17     0      6      2      100000      0      Pass      99.00000E+36
443 18     0      6      2      100000      0      Pass      99.00000E+36
444 19     0      6      2      100000      0      Pass      99.00000E+36
445 0      1      6      1      5      0      Fail      6.74099E+0
446 1      1      6      1      5      0      Fail      6.84718E+0
447 2      1      6      1      5      0      Fail      6.80610E+0
448 3      1      6      1      5      0      Fail      6.87759E+0
449 4      1      6      1      5      0      Fail      7.79382E+0
450 5      1      6      1      5      0      Fail      6.99271E+0
451 6      1      6      1      5      0      Fail      7.52920E+0
452 7      1      6      1      5      0      Fail      6.97763E+0
453 8      1      6      1      5      0      Fail      6.98460E+0
454 9      1      6      1      5      0      Fail      7.11768E+0
455 10     1      6      2      5      0      Fail      6.40749E+0
456 11     1      6      2      5      0      Fail      6.91531E+0
457 12     1      6      2      5      0      Fail      6.44653E+0
458 13     1      6      2      5      0      Fail      6.48074E+0
459 14     1      6      2      5      0      Fail      6.75548E+0
460 15     1      6      2      5      0      Fail      8.24275E+0
461 16     1      6      2      5      0      Fail      6.67728E+0
462 17     1      6      2      5      0      Fail      6.58136E+0
463 18     1      6      2      5      0      Fail      6.60645E+0
464 19     1      6      2      5      0      Fail      6.63842E+0
465 *****
466
467 10/3/2019    12:15 PM
468
469 RI4152 BIT:
470 RI4152 Passed BIT
471
472 RI 1260-138 Self Test: Failed
473
474 -138 State  -138 MUX      -138 Relay  UL(Ohms)      LL(Ohms)      Status      MV
475 =====
476 =====
476 0      2      7      100000      0      Pass      99.0000E+36
477 0      4      0      100000      0      Pass      99.0000E+36
478 0      6      0      100000      0      Pass      99.0000E+36
479 0      7      0      100000      0      Pass      99.0000E+36
```

```
480      1      2      7      5      0      Pass      4.9990E+0
481      1      4      0      5      0      Fail      5.1796E+0
482      1      6      0      5      0      Fail      6.0243E+0
483      1      7      0      5      0      Fail      5.0761E+0
484 *****
485
486 10/3/2019   11:43 AM
487
488 RI 6065-8 BIT:   Passed
489
490 RI 6065-8 Self Test:   Passed
491
492 Baud Rate    TX Chan    TX String                      RX Chan    RX
493 String                      Status
494 =====
495 =====
496 38,400      1      The quick brown fox jumps over the lazy dog 2      The quick
497 brown fox jumps over the lazy dog Passed
498 38,400      3      The quick brown fox jumps over the lazy dog 4      The quick
499 brown fox jumps over the lazy dog Passed
500 38,400      5      The quick brown fox jumps over the lazy dog 6      The quick
501 brown fox jumps over the lazy dog Passed
502 38,400      7      The quick brown fox jumps over the lazy dog 8      The quick
503 brown fox jumps over the lazy dog Passed
504 38,400      2      This is a Self-Test in the opposite direction 1      This is
505 a Self-Test in the opposite direction Passed
506 38,400      4      This is a Self-Test in the opposite direction 3      This is
507 a Self-Test in the opposite direction Passed
508 38,400      6      This is a Self-Test in the opposite direction 5      This is
509 a Self-Test in the opposite direction Passed
510 38,400      8      This is a Self-Test in the opposite direction 7      This is
511 a Self-Test in the opposite direction Passed*****
512
513 10/3/2019   12:15 PM
514
515 HP66101 Power Supply & HP6050 Electronic Load BIT:
516 HP66101A #1 Power Supply Passed BIT
517
518 HP6050 Load Chassis Passed BIT
519
520 HP66101 Power Supply/HP6050 Electronic Load Self Test:
521
522 Instrument  Chan    Test Res    Test Volt    Test Curr    Up Lim    Lo Lim
523 Status      MV
524 =====
525 =====
526 HP66101A    1*  100.00    7.50         1.00         0.10 Amps   0.03 Amps
527 Passed      64.3324E-3 Amps*
528 RI4152A     1    100.00    7.50         1.00         7.25 Volts  7.75 Volts
529 Passed      7.4962E+0 Volts
530 *NOTE: Measured Current at HP66101 Source.
531
532 *****
533
534 10/3/2019   12:15 PM
535
536 HP66101 Power Supply #2 & HP6050 Electronic Load BIT:
537 HP66101A #2 Power Supply Passed BIT
538
539 HP6050 Load Chassis Passed BIT
540
541 HP66101 Power Supply #2/HP6050 Electronic Load Self Test:
542
543 Instrument  Chan    Test Res    Test Volt    Test Curr    Up Lim    Lo Lim
544 Status      MV
545 =====
546 =====
547 HP66101A    2*  100.00    7.50         1.00         0.10 Amps   0.03 Amps
548 Failed      1.3826E-3 Amps*
```

532 RI4152A 1 100.00 7.50 1.00 7.25 Volts 7.75 Volts
Passed 7.4996E+0 Volts
533 *NOTE: Measured Current at HP66101 Source.
534
535 *****
536
537 10/3/2019 12:15 PM
538
539 HP66103 Power Supply & HP6050 Electronic Load BIT:
540 HP66103A #1 Power Supply Passed BIT
541 HP6050 Load Chassis Passed BIT
542
543 HP66103 Power Supply/HP6050 Electronic Load Self Test:
544
545 Instrument Chan Test Res Test Volt Test Curr Up Lim Lo Lim
Status MV
546 =====
=====

547	HP66103A	1*	100.00	25.00	1.00	0.40 Amps	0.10 Amps
-----	----------	----	--------	-------	------	-----------	-----------

Passed 249.6960E-3 Amps*

548	RI4152A	1	100.00	25.00	1.00	24.50 Volts	25.50 Volts
-----	---------	---	--------	-------	------	-------------	-------------

Passed 24.9982E+0 Volts
549 *NOTE: Measured Current at HP66103 Source.
550
551 *****
552
553 10/3/2019 12:16 PM
554
555 HP66103 Power Supply & HP6050 Electronic Load BIT:
556 HP66103A #2 Power Supply Passed BIT
557 HP6050 Load Chassis Passed BIT
558
559 HP66103 Power Supply/HP6050 Electronic Load Self Test:
560
561 Instrument Chan Test Res Test Volt Test Curr Up Lim Lo Lim
Status MV
562 =====
=====

563	HP66103A	2*	100.00	25.00	1.00	0.40 Amps	0.10 Amps
-----	----------	----	--------	-------	------	-----------	-----------

Passed 236.7130E-3 Amps*

564	RI4152A	1	100.00	25.00	1.00	24.50 Volts	25.50 Volts
-----	---------	---	--------	-------	------	-------------	-------------

Passed 25.0033E+0 Volts
565 *NOTE: Measured Current at HP66103 Source.
566
567 *****
568
569 10/3/2019 12:16 PM
570
571 HP66103 Power Supply & HP6050 Electronic Load BIT:
572 HP66103A #3 Power Supply Passed BIT
573 HP6050 Load Chassis Passed BIT
574
575 HP66103 Power Supply/HP6050 Electronic Load Self Test:
576
577 Instrument Chan Test Res Test Volt Test Curr Up Lim Lo Lim
Status MV
578 =====
=====

579	HP66103A	3*	100.00	25.00	1.00	0.40 Amps	0.10 Amps
-----	----------	----	--------	-------	------	-----------	-----------

Passed 240.6530E-3 Amps*

580	RI4152A	1	100.00	25.00	1.00	24.50 Volts	25.50 Volts
-----	---------	---	--------	-------	------	-------------	-------------

Passed 25.0075E+0 Volts
581 *NOTE: Measured Current at HP66103 Source.
582
583 *****
584
585 10/3/2019 12:16 PM
586
587 HP66103 Power Supply & HP6050 Electronic Load BIT:

```

588 HP66103A #4 Power Supply Passed BIT
589 HP6050 Load Chassis Passed BIT
590
591 HP66103 Power Supply/HP6050 Electronic Load Self Test:
592
593 Instrument  Chan      Test Res      Test Volt      Test Curr      Up Lim      Lo Lim
594 Status      MV
=====
595 HP66103A      4*  100.00      25.00      1.00      0.40 Amps      0.10 Amps
596 Passed      251.4760E-3 Amps*
596 RI4152A      1   100.00      25.00      1.00      24.50 Volts 25.50 Volts
597 Passed      24.9999E+0 Volts
597 *NOTE: Measured Current at HP66103 Source.
598
599 *****
600
601 10/3/2019    12:16 PM
602
603 HP66103 Power Supply & RI4152A DMM BIT:
604 HP66103A #5 Power Supply Passed BIT
605 RI4152A DMM Passed BIT
606
607 HP66103 Power Supply/RI4152A DMM Self Test:
608
609 Instrument  Chan      Test Res      Test Volt      Test Curr      Up Lim      Lo Lim
610 Status      MV
=====
611 HP66103A      5*  100.00      25.00      1.00      24.50 Volts 25.50 Volts
612 Passed      25.0052E+0 Volts*
612 RI4152A      1   100.00      25.00      1.00      24.50 Volts 25.50 Volts
613 Passed      24.9975E+0 Volts
613 *NOTE: Measured Voltage at HP66101 Source.
614
615 *****
616
617 10/3/2019    11:40 AM
618
619 RI3151 Waveform Generator & RI2461 C/T BIT:
620 RI3151 Arb Passed BIT
621 RI2461 C/T Passed BIT
622 RI3151 Waveform Generator & RI2461 C/T Self Test: Failed
623
624 Test Freq(Hz)  Test Ampl(Vptp) Instrument  -150 A-Chanl  -150 A-Relay  -150
625 B-Chanl      -150 B-Relay      Lo Lim      Up Lim      Status      Meas Val
=====
626 3000.00      24.00      RI2461      1      0      5      0      2800.00 Hz
627 3200.00 Hz Passed      3.000000E+3 Hz
627 3000.00      24.00      TDS460A      1      0      5      0      2800.00 Hz
628 3200.00 Hz Passed      2.985050E+3 Hz
628 3000.00      24.00      TDS460A      1      0      5      0      23.40 Volts
629 25.60 Volts Failed      23.000000E+0 V
629 3000.00      24.00      RI2461      1      1      5      1      2800.00 Hz
630 3200.00 Hz Passed      3.000000E+3 Hz
630 3000.00      24.00      TDS460A      1      1      5      1      2800.00 Hz
631 3200.00 Hz Passed      2.995500E+3 Hz
631 3000.00      24.00      TDS460A      1      1      5      1      23.40 Volts
632 25.60 Volts Failed      23.000000E+0 V
632 3000.00      24.00      RI2461      1      2      5      2      2800.00 Hz
633 3200.00 Hz Passed      3.000000E+3 Hz
633 3000.00      24.00      TDS460A      1      2      5      2      2800.00 Hz
634 3200.00 Hz Passed      3.001500E+3 Hz
634 3000.00      24.00      TDS460A      1      2      5      2      23.40 Volts
635 25.60 Volts Failed      23.000000E+0 V
635 3000.00      24.00      RI2461      1      3      5      3      2800.00 Hz
636 3200.00 Hz Passed      3.000000E+3 Hz
636 3000.00      24.00      TDS460A      1      3      5      3      2800.00 Hz

```

	3200.00 Hz	Passed	3.006000E+3 Hz					
637	3000.00	24.00	TDS460A 1	3	5	3	23.40 Volts	
	25.60 Volts	Failed	22.800000E+0 V					
638	3000.00	24.00	RI2461 2	0	6	0	2800.00 Hz	
	3200.00 Hz	Passed	3.000000E+3 Hz					
639	3000.00	24.00	TDS460A 2	0	6	0	2800.00 Hz	
	3200.00 Hz	Passed	2.994750E+3 Hz					
640	3000.00	24.00	TDS460A 2	0	6	0	23.40 Volts	
	25.60 Volts	Failed	23.000000E+0 V					
641	3000.00	24.00	RI2461 2	1	6	1	2800.00 Hz	
	3200.00 Hz	Passed	3.000000E+3 Hz					
642	3000.00	24.00	TDS460A 2	1	6	1	2800.00 Hz	
	3200.00 Hz	Passed	3.010550E+3 Hz					
643	3000.00	24.00	TDS460A 2	1	6	1	23.40 Volts	
	25.60 Volts	Failed	22.800000E+0 V					
644	3000.00	24.00	RI2461 2	2	6	2	2800.00 Hz	
	3200.00 Hz	Passed	3.000000E+3 Hz					
645	3000.00	24.00	TDS460A 2	2	6	2	2800.00 Hz	
	3200.00 Hz	Passed	3.003000E+3 Hz					
646	3000.00	24.00	TDS460A 2	2	6	2	23.40 Volts	
	25.60 Volts	Failed	22.800000E+0 V					
647	3000.00	24.00	RI2461 2	3	6	3	2800.00 Hz	
	3200.00 Hz	Passed	3.000000E+3 Hz					
648	3000.00	24.00	TDS460A 2	3	6	3	2800.00 Hz	
	3200.00 Hz	Passed	3.001500E+3 Hz					
649	3000.00	24.00	TDS460A 2	3	6	3	23.40 Volts	
	25.60 Volts	Failed	22.800000E+0 V					
650	3000.00	24.00	RI2461 3	0	7	0	2800.00 Hz	
	3200.00 Hz	Passed	3.000000E+3 Hz					
651	3000.00	24.00	TDS460A 3	0	7	0	2800.00 Hz	
	3200.00 Hz	Passed	2.998500E+3 Hz					
652	3000.00	24.00	TDS460A 3	0	7	0	23.40 Volts	
	25.60 Volts	Failed	23.000000E+0 V					
653	3000.00	24.00	RI2461 3	1	7	1	2800.00 Hz	
	3200.00 Hz	Passed	3.000000E+3 Hz					
654	3000.00	24.00	TDS460A 3	1	7	1	2800.00 Hz	
	3200.00 Hz	Passed	2.997000E+3 Hz					
655	3000.00	24.00	TDS460A 3	1	7	1	23.40 Volts	
	25.60 Volts	Failed	23.000000E+0 V					
656	3000.00	24.00	RI2461 3	2	7	2	2800.00 Hz	
	3200.00 Hz	Passed	3.000000E+3 Hz					
657	3000.00	24.00	TDS460A 3	2	7	2	2800.00 Hz	
	3200.00 Hz	Passed	3.006000E+3 Hz					
658	3000.00	24.00	TDS460A 3	2	7	2	23.40 Volts	
	25.60 Volts	Failed	23.000000E+0 V					
659	3000.00	24.00	RI2461 3	3	7	3	2800.00 Hz	
	3200.00 Hz	Passed	3.000000E+3 Hz					
660	3000.00	24.00	TDS460A 3	3	7	3	2800.00 Hz	
	3200.00 Hz	Passed	3.001500E+3 Hz					
661	3000.00	24.00	TDS460A 3	3	7	3	23.40 Volts	
	25.60 Volts	Failed	23.000000E+0 V					
662	3000.00	24.00	RI2461 4	0	8	0	2800.00 Hz	
	3200.00 Hz	Passed	3.000000E+3 Hz					
663	3000.00	24.00	TDS460A 4	0	8	0	2800.00 Hz	
	3200.00 Hz	Passed	3.004500E+3 Hz					
664	3000.00	24.00	TDS460A 4	0	8	0	23.40 Volts	
	25.60 Volts	Failed	23.000000E+0 V					
665	3000.00	24.00	RI2461 4	1	8	1	2800.00 Hz	
	3200.00 Hz	Passed	3.000000E+3 Hz					
666	3000.00	24.00	TDS460A 4	1	8	1	2800.00 Hz	
	3200.00 Hz	Passed	3.003000E+3 Hz					
667	3000.00	24.00	TDS460A 4	1	8	1	23.40 Volts	
	25.60 Volts	Failed	22.800000E+0 V					
668	3000.00	24.00	RI2461 4	2	8	2	2800.00 Hz	
	3200.00 Hz	Passed	3.000000E+3 Hz					
669	3000.00	24.00	TDS460A 4	2	8	2	2800.00 Hz	
	3200.00 Hz	Passed	2.994000E+3 Hz					
670	3000.00	24.00	TDS460A 4	2	8	2	23.40 Volts	
	25.60 Volts	Failed	22.800000E+0 V					

```
671 3000.00      24.00      RI2461      4      3      8      3      2800.00 Hz
    3200.00 Hz Passed      3.000000E+3 Hz
672 3000.00      24.00      TDS460A      4      3      8      3      2800.00 Hz
    3200.00 Hz Passed      2.989550E+3 Hz
673 3000.00      24.00      TDS460A      4      3      8      3      23.40 Volts
    25.60 Volts Failed      23.000000E+0 V
674 *****
675
676 10/3/2019    12:18 PM
677 RI 4152 DMM BIT Test
678
679 BIT Test Status
680 BIT Test Passed
681 *****
682
683 10/3/2019    12:17 PM
684 Keithley 236 SMU#1 Self Test      Passed
685
686 Source  Level(Volts)      LL(Volts)      UL(Volts)      Status      MV(Volts)
687 =====
688 SMU #1  10.0000E+0  9.50      10.50      Passed      10.0008E+0
689 *****
690
691 10/3/2019    12:18 PM
692 Keithley 236 SMU#2 Self Test      Passed
693
694 Source  Level(Volts)      LL(Volts)      UL(Volts)      Status      MV(Volts)
695 =====
696 SMU #2  10.0000E+0  9.50      10.50      Passed      10.0004E+0
697 *****
698
699 *****      END OF REPORT      *****
```