

User's Guide Self-Test Waters Corporation

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2. Product model number
3. Your company and contact information

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Chapter 1

GENERAL INFORMATION

Identification

This document is the Waters Corporation Self-test User's Guide, part number 12898004. The 'system' referred to in this document is the Self-Test Test Program Set (TPS) consisting of the Self-Test software and the Self-Test Interface Test Adapter (ITA).

System Overview

The Self-Test Test Program Set (TPS) consists of the Self-Test Software, part number 12892001, and the Self-Test Interface Test Adapter (ITA), part number 12840003.

Document Overview

This User's Guide describes how to install and use the Self-Test for the system. It provides the operator and test program developer an overview of the Self-Test capabilities and the files necessary to run the Self-Test.

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Chapter 2

REFERENCE DOCUMENTS

Commercial Publications

- WindowsNT® Workstation Users Manual by Microsoft Corporation
- LabVIEW™ User Manual by National Instruments
- LabVIEW™ Function and VI Reference Manual by National Instruments
- LabVIEW™ G Programming Reference Manual by National Instruments
- LabVIEW™ Data Acquisition Basics Reference Manual by National Instruments
- TestStand™ User Manual by National Instruments
- RI1261B High Power Intelligent Mainframe VXI Chassis Manual
- RI4152A Instruction Manual
- RI3151/3151A Users' Manual
- RI2461 CD Users' Manual
- RI6065 Instruction Manual
- RI1260A Opt 01T VXI Switching Cards
- RI1260-100 Adapt-A-Switch Carrier Module
- RI1260-114 High Density Digital I/O Plug-in
- RI1260-117 High Density SPDT Plug-in
- RI1260-120 20 Channel Plug-in
- RI1260-138A Multiplexer Plug-in
- RI1260-150 10 Channel High Frequency Plug-in
- Agilent Operators' Manual – Electronic Load Mainframes 6050A/6051A
- Agilent Programming Manual – Electronic Load Family
- Agilent Installation Guide - HP66000A MPS Mainframe

- Agilent Programmers' Guide – HP661xxA MPS Power Modules
- Agilent Users' Guide – HP661xxA MPS Power Modules and HP66001 MPS Keyboard
- Tektronics User Manual – TDS420A, TDS430...Digitizing Oscilloscopes
- Tektronics Technical Reference – TDS420A, TDS430A...Specification
- Tektronics Reference – TDS420A, TDS430A...Digitizing Oscilloscopes

Chapter 3

GETTING STARTED

Power On

Refer to the system *O&M Manual*, part number 12840001, for instructions on how to apply power to the Test System.

Logging Onto Windows NT

When the system is powered on, the User logs onto WindowsNT with the Username and Password provided by the System Administrator. This provides the first level of user access.

Self-Test Software Installation

The Self-Test software is contained on the *CD-ROM SOFTWARE, SELF-TEST* – part number 12892001. To install the Self-Test files run setup.exe. Running setup.exe will install the Self-Test sequencer program and several Virtual Instrument (vi) files which contain the actual Self-Test executable code.

Self-Test Operation

The Waters Corporation Self-Test software runs under National Instruments LabVIEW™. The Self-Test sequencer program loads the Self-Test functions, which are contained in several '.vi' files. These files provide all of the instrument specific information required to perform the Self-Test on the system. Before any validation can begin, the system must have power applied to it, be in the WindowsNT operating system, and the Self-Test ITA, part number 12840003, must be properly installed.

The Self-Test programs are operated from within the LabVIEW™ Operator Interface. The Self-Test program can be initiated using the Self-Test icon installed on the computer desktop. Once selected, the Self-Test sequencer will present the operator with the software options. The Self-Test takes approximately 30 minutes to complete.

At the completion of the full Self-Test, an option to print a test log will be displayed. An excerpt of the final test report is shown on the following page.

User's Guide, Waters Self-Test

Waters 2414 RIU
Self Test Results File
2/7/01
6:04 PM

2/7/01 5:39 PM
RI1260 Switch Card BIT: Passed
RI 1260-114 Self Test: Passed

WRITE	VALUE	READ	VALUE	STATUS
Port A	211	Port G	211	Pass
Port B	225	Port H	225	Pass
Port C	55	Port I	55	Pass
Port D	248	Port J	248	Pass
Port E	76	Port K	76	Pass
Port F	95	Port L	95	Pass
Port G	23	Port A	23	Pass
Port H	250	Port B	250	Pass
Port I	213	Port C	213	Pass
Port J	216	Port D	216	Pass
Port K	51	Port E	51	Pass
Port L	239	Port F	239	Pass

2/7/01 5:28 PM

RI4152 BIT: Passed

RI 1260-117 Self Test: Passed

-117 Relay	-117 State	-138 MUX	-138 Relay	UL(Ohms)	LL(Ohms)	Status	MV
0	0	2	4	100000	0	Pass	99.00000E+36
1	0	2	4	100000	0	Pass	99.00000E+36
2	0	2	4	100000	0	Pass	99.00000E+36
3	0	2	4	100000	0	Pass	99.00000E+36
4	0	2	5	100000	0	Pass	99.00000E+36
5	0	2	5	100000	0	Pass	99.00000E+36
6	0	2	5	100000	0	Pass	99.00000E+36
7	0	2	5	100000	0	Pass	99.00000E+36
8	0	2	6	100000	0	Pass	99.00000E+36
9	0	2	6	100000	0	Pass	99.00000E+36
10	0	2	6	100000	0	Pass	99.00000E+36
11	0	2	6	100000	0	Pass	99.00000E+36
12	0	3	0	100000	0	Pass	99.00000E+36
13	0	3	0	100000	0	Pass	99.00000E+36
14	0	3	0	100000	0	Pass	99.00000E+36
15	0	3	0	100000	0	Pass	99.00000E+36
16	0	3	1	100000	0	Pass	99.00000E+36
17	0	3	1	100000	0	Pass	99.00000E+36
18	0	3	1	100000	0	Pass	99.00000E+36
19	0	3	1	100000	0	Pass	99.00000E+36
20	0	3	2	100000	0	Pass	99.00000E+36
21	0	3	2	100000	0	Pass	99.00000E+36
22	0	3	2	100000	0	Pass	99.00000E+36
23	0	3	2	100000	0	Pass	99.00000E+36
24	0	3	3	100000	0	Pass	99.00000E+36
25	0	3	3	100000	0	Pass	99.00000E+36
26	0	3	3	100000	0	Pass	99.00000E+36
27	0	3	3	100000	0	Pass	99.00000E+36
28	0	3	4	100000	0	Pass	99.00000E+36
29	0	3	4	100000	0	Pass	99.00000E+36
30	0	3	4	100000	0	Pass	99.00000E+36
31	0	3	4	100000	0	Pass	99.00000E+36

32	0	3	5	100000	0	Pass	99.00000E+36
33	0	3	5	100000	0	Pass	99.00000E+36
34	0	3	5	100000	0	Pass	99.00000E+36
35	0	3	5	100000	0	Pass	99.00000E+36
36	0	3	6	100000	0	Pass	99.00000E+36
37	0	3	6	100000	0	Pass	99.00000E+36
38	0	3	6	100000	0	Pass	99.00000E+36
39	0	3	6	100000	0	Pass	99.00000E+36
40	0	3	7	100000	0	Pass	99.00000E+36
41	0	3	7	100000	0	Pass	99.00000E+36
42	0	3	7	100000	0	Pass	99.00000E+36
43	0	3	7	100000	0	Pass	99.00000E+36
44	0	4	1	100000	0	Pass	99.00000E+36
45	0	4	1	100000	0	Pass	99.00000E+36
46	0	4	1	100000	0	Pass	99.00000E+36
47	0	4	1	100000	0	Pass	99.00000E+36
48	0	4	2	100000	0	Pass	99.00000E+36
49	0	4	2	100000	0	Pass	99.00000E+36
50	0	4	2	100000	0	Pass	99.00000E+36
51	0	4	2	100000	0	Pass	99.00000E+36
0	0	4	3	5	0	Pass	1.78505E+0
1	0	4	3	5	0	Pass	1.78524E+0
2	0	4	3	5	0	Pass	1.78498E+0
3	0	4	3	5	0	Pass	1.78377E+0
4	0	4	4	5	0	Pass	1.69392E+0
5	0	4	4	5	0	Pass	1.69539E+0
6	0	4	4	5	0	Pass	1.69432E+0
7	0	4	4	5	0	Pass	1.69410E+0
8	0	4	5	5	0	Pass	1.67503E+0
9	0	4	5	5	0	Pass	1.67559E+0
10	0	4	5	5	0	Pass	1.67523E+0
11	0	4	5	5	0	Pass	1.67533E+0
12	0	4	6	5	0	Pass	1.68198E+0
13	0	4	6	5	0	Pass	1.68356E+0
14	0	4	6	5	0	Pass	1.68326E+0
15	0	4	6	5	0	Pass	1.68229E+0
16	0	4	7	5	0	Pass	1.68580E+0
17	0	4	7	5	0	Pass	1.68769E+0
18	0	4	7	5	0	Pass	1.68622E+0
19	0	4	7	5	0	Pass	1.68579E+0
20	0	5	0	5	0	Pass	1.53199E+0
21	0	5	0	5	0	Pass	1.53288E+0
22	0	5	0	5	0	Pass	1.53215E+0
23	0	5	0	5	0	Pass	1.53192E+0
24	0	5	1	5	0	Pass	1.50320E+0
25	0	5	1	5	0	Pass	1.50284E+0
26	0	5	1	5	0	Pass	1.50394E+0
27	0	5	1	5	0	Pass	1.50390E+0
28	0	5	2	5	0	Pass	1.45843E+0
29	0	5	2	5	0	Pass	1.45921E+0
30	0	5	2	5	0	Pass	1.45954E+0
31	0	5	2	5	0	Pass	1.45868E+0
32	0	5	3	5	0	Pass	1.41434E+0
33	0	5	3	5	0	Pass	1.41491E+0
34	0	5	3	5	0	Pass	1.41372E+0
35	0	5	3	5	0	Pass	1.41323E+0
36	0	5	4	5	0	Pass	1.38377E+0
37	0	5	4	5	0	Pass	1.38268E+0
38	0	5	4	5	0	Pass	1.38170E+0
39	0	5	4	5	0	Pass	1.38378E+0
40	0	5	5	5	0	Pass	1.36136E+0
41	0	5	5	5	0	Pass	1.36223E+0
42	0	5	5	5	0	Pass	1.36200E+0
43	0	5	5	5	0	Pass	1.36134E+0
44	0	5	6	5	0	Pass	1.34434E+0
45	0	5	6	5	0	Pass	1.34525E+0
46	0	5	6	5	0	Pass	1.34394E+0
47	0	5	6	5	0	Pass	1.34477E+0
48	0	5	7	5	0	Pass	1.30126E+0
49	0	5	7	5	0	Pass	1.30066E+0
50	0	5	7	5	0	Pass	1.30084E+0
51	0	5	7	5	0	Pass	1.30139E+0

0	1	2	4	5	0	Pass	1.93650E+0
1	1	2	4	5	0	Pass	1.95520E+0
2	1	2	4	5	0	Pass	1.84990E+0
3	1	2	4	5	0	Pass	1.90051E+0
4	1	2	5	5	0	Pass	1.81778E+0
5	1	2	5	5	0	Pass	1.78999E+0
6	1	2	5	5	0	Pass	1.74199E+0
7	1	2	5	5	0	Pass	1.93373E+0
8	1	2	6	5	0	Pass	1.84596E+0
9	1	2	6	5	0	Pass	1.85324E+0
10	1	2	6	5	0	Pass	1.74228E+0
11	1	2	6	5	0	Pass	1.78231E+0
12	1	3	0	5	0	Pass	1.66036E+0
13	1	3	0	5	0	Pass	1.62554E+0
14	1	3	0	5	0	Pass	1.80275E+0
15	1	3	0	5	0	Pass	1.77863E+0
16	1	3	1	5	0	Pass	1.82458E+0
17	1	3	1	5	0	Pass	1.71438E+0
18	1	3	1	5	0	Pass	1.64438E+0
19	1	3	1	5	0	Pass	1.62171E+0
20	1	3	2	5	0	Pass	1.59849E+0
21	1	3	2	5	0	Pass	1.55446E+0
22	1	3	2	5	0	Pass	1.72660E+0
23	1	3	2	5	0	Pass	1.74887E+0
24	1	3	3	5	0	Pass	1.65829E+0
25	1	3	3	5	0	Pass	1.67853E+0
26	1	3	3	5	0	Pass	1.60786E+0
27	1	3	3	5	0	Pass	1.63232E+0
28	1	3	4	5	0	Pass	1.57179E+0
29	1	3	4	5	0	Pass	1.52994E+0
30	1	3	4	5	0	Pass	1.68806E+0
31	1	3	4	5	0	Pass	1.75684E+0
32	1	3	5	5	0	Pass	1.66490E+0
33	1	3	5	5	0	Pass	1.64550E+0
34	1	3	5	5	0	Pass	1.57711E+0
35	1	3	5	5	0	Pass	1.54742E+0
36	1	3	6	5	0	Pass	1.56212E+0
37	1	3	6	5	0	Pass	1.53258E+0
38	1	3	6	5	0	Pass	1.68976E+0
39	1	3	6	5	0	Pass	1.68945E+0
40	1	3	7	5	0	Pass	1.67559E+0
41	1	3	7	5	0	Pass	1.62321E+0
42	1	3	7	5	0	Pass	1.55428E+0
43	1	3	7	5	0	Pass	1.53437E+0
44	1	4	1	5	0	Pass	1.60569E+0
45	1	4	1	5	0	Pass	1.82413E+0
46	1	4	1	5	0	Pass	1.69693E+0
47	1	4	1	5	0	Pass	1.72854E+0
48	1	4	2	5	0	Pass	1.74863E+0
49	1	4	2	5	0	Pass	1.68233E+0
50	1	4	2	5	0	Pass	1.59880E+0
51	1	4	2	5	0	Pass	1.56970E+0
0	1	4	3	5	0	Pass	1.81032E+0
1	1	4	3	5	0	Pass	1.82467E+0
2	1	4	3	5	0	Pass	1.82094E+0
3	1	4	3	5	0	Pass	1.84471E+0
4	1	4	4	5	0	Pass	1.72150E+0
5	1	4	4	5	0	Pass	1.72734E+0
6	1	4	4	5	0	Pass	1.73563E+0
7	1	4	4	5	0	Pass	1.72697E+0
8	1	4	5	5	0	Pass	1.69819E+0
9	1	4	5	5	0	Pass	1.70830E+0
10	1	4	5	5	0	Pass	1.70798E+0
11	1	4	5	5	0	Pass	1.73185E+0
12	1	4	6	5	0	Pass	1.71427E+0
13	1	4	6	5	0	Pass	1.72833E+0
14	1	4	6	5	0	Pass	1.70533E+0
15	1	4	6	5	0	Pass	1.72273E+0
16	1	4	7	5	0	Pass	1.70961E+0
17	1	4	7	5	0	Pass	1.71883E+0
18	1	4	7	5	0	Pass	1.71941E+0
19	1	4	7	5	0	Pass	1.74298E+0

20	1	5	0	5	0	Pass	1.56776E+0
21	1	5	0	5	0	Pass	1.57702E+0
22	1	5	0	5	0	Pass	1.55462E+0
23	1	5	0	5	0	Pass	1.57002E+0
24	1	5	1	5	0	Pass	1.52942E+0
25	1	5	1	5	0	Pass	1.53992E+0
26	1	5	1	5	0	Pass	1.53651E+0
27	1	5	1	5	0	Pass	1.55517E+0
28	1	5	2	5	0	Pass	1.49408E+0
29	1	5	2	5	0	Pass	1.50864E+0
30	1	5	2	5	0	Pass	1.48182E+0
31	1	5	2	5	0	Pass	1.49358E+0
32	1	5	3	5	0	Pass	1.43993E+0
33	1	5	3	5	0	Pass	1.44978E+0
34	1	5	3	5	0	Pass	1.45160E+0
35	1	5	3	5	0	Pass	1.46436E+0
36	1	5	4	5	0	Pass	1.41556E+0
37	1	5	4	5	0	Pass	1.42759E+0
38	1	5	4	5	0	Pass	1.40751E+0
39	1	5	4	5	0	Pass	1.42322E+0
40	1	5	5	5	0	Pass	1.38715E+0
41	1	5	5	5	0	Pass	1.39174E+0
42	1	5	5	5	0	Pass	1.39800E+0
43	1	5	5	5	0	Pass	1.41735E+0
44	1	5	6	5	0	Pass	1.38792E+0
45	1	5	6	5	0	Pass	1.37441E+0
46	1	5	6	5	0	Pass	1.37389E+0
47	1	5	6	5	0	Pass	1.39399E+0
48	1	5	7	5	0	Pass	1.32145E+0
49	1	5	7	5	0	Pass	1.32936E+0
50	1	5	7	5	0	Pass	1.33210E+0
51	1	5	7	5	0	Pass	1.35273E+0

2/7/01 5:35 PM

RI4152 BIT: Passed

RI 1260-118 Self Test: Passed

-118 Relay	-118 State	-138 MUX	-138 Relay	UL(Ohms)	LL(Ohms)	Status	MV
=====							
0	0	0	0	100000	0	Pass	99.00000E+36
1	0	0	0	100000	0	Pass	99.00000E+36
2	0	0	0	100000	0	Pass	99.00000E+36
3	0	0	0	100000	0	Pass	99.00000E+36
4	0	0	1	100000	0	Pass	99.00000E+36
5	0	0	1	100000	0	Pass	99.00000E+36
6	0	0	1	100000	0	Pass	99.00000E+36
7	0	0	1	100000	0	Pass	99.00000E+36
8	0	0	2	100000	0	Pass	99.00000E+36
9	0	0	2	100000	0	Pass	99.00000E+36
10	0	0	2	100000	0	Pass	99.00000E+36
11	0	0	2	100000	0	Pass	99.00000E+36
12	0	0	3	100000	0	Pass	99.00000E+36
13	0	0	3	100000	0	Pass	99.00000E+36
14	0	0	3	100000	0	Pass	99.00000E+36
15	0	0	3	100000	0	Pass	99.00000E+36
16	0	0	4	100000	0	Pass	99.00000E+36
17	0	0	4	100000	0	Pass	99.00000E+36
18	0	0	4	100000	0	Pass	99.00000E+36
19	0	0	4	100000	0	Pass	99.00000E+36
20	0	0	5	100000	0	Pass	99.00000E+36
21	0	0	5	100000	0	Pass	99.00000E+36
22	0	0	5	100000	0	Pass	99.00000E+36
23	0	0	5	100000	0	Pass	99.00000E+36
24	0	0	6	100000	0	Pass	99.00000E+36
25	0	0	6	100000	0	Pass	99.00000E+36
26	0	0	6	100000	0	Pass	99.00000E+36
27	0	0	6	100000	0	Pass	99.00000E+36
28	0	0	7	100000	0	Pass	99.00000E+36

29	0	0	7	100000	0	Pass	99.00000E+36
30	0	0	7	100000	0	Pass	99.00000E+36
31	0	0	7	100000	0	Pass	99.00000E+36
32	0	1	0	100000	0	Pass	99.00000E+36
33	0	1	0	100000	0	Pass	99.00000E+36
34	0	1	0	100000	0	Pass	99.00000E+36
35	0	1	0	100000	0	Pass	99.00000E+36
36	0	1	1	100000	0	Pass	99.00000E+36
37	0	1	1	100000	0	Pass	99.00000E+36
38	0	1	1	100000	0	Pass	99.00000E+36
39	0	1	1	100000	0	Pass	99.00000E+36
40	0	1	2	100000	0	Pass	99.00000E+36
41	0	1	2	100000	0	Pass	99.00000E+36
42	0	1	2	100000	0	Pass	99.00000E+36
43	0	1	2	100000	0	Pass	99.00000E+36
44	0	1	3	100000	0	Pass	99.00000E+36
45	0	1	3	100000	0	Pass	99.00000E+36
46	0	1	3	100000	0	Pass	99.00000E+36
47	0	1	3	100000	0	Pass	99.00000E+36
48	0	1	4	100000	0	Pass	99.00000E+36
49	0	1	4	100000	0	Pass	99.00000E+36
50	0	1	4	100000	0	Pass	99.00000E+36
51	0	1	4	100000	0	Pass	99.00000E+36
52	0	1	5	100000	0	Pass	99.00000E+36
53	0	1	5	100000	0	Pass	99.00000E+36
54	0	1	5	100000	0	Pass	99.00000E+36
55	0	1	5	100000	0	Pass	99.00000E+36
56	0	1	6	100000	0	Pass	99.00000E+36
57	0	1	6	100000	0	Pass	99.00000E+36
58	0	1	6	100000	0	Pass	99.00000E+36
59	0	1	6	100000	0	Pass	99.00000E+36
60	0	1	7	100000	0	Pass	99.00000E+36
61	0	1	7	100000	0	Pass	99.00000E+36
62	0	1	7	100000	0	Pass	99.00000E+36
63	0	1	7	100000	0	Pass	99.00000E+36
64	0	2	0	100000	0	Pass	99.00000E+36
65	0	2	0	100000	0	Pass	99.00000E+36
66	0	2	0	100000	0	Pass	99.00000E+36
67	0	2	0	100000	0	Pass	99.00000E+36
68	0	2	1	100000	0	Pass	99.00000E+36
69	0	2	1	100000	0	Pass	99.00000E+36
70	0	2	1	100000	0	Pass	99.00000E+36
71	0	2	1	100000	0	Pass	99.00000E+36
72	0	2	2	100000	0	Pass	99.00000E+36
73	0	2	2	100000	0	Pass	99.00000E+36
74	0	2	2	100000	0	Pass	99.00000E+36
75	0	2	2	100000	0	Pass	99.00000E+36
76	0	2	3	100000	0	Pass	99.00000E+36
77	0	2	3	100000	0	Pass	99.00000E+36
78	0	2	3	100000	0	Pass	99.00000E+36
79	0	2	3	100000	0	Pass	99.00000E+36
0	1	0	0	5	0	Pass	1.53838E+0
1	1	0	0	5	0	Pass	1.50911E+0
2	1	0	0	5	0	Pass	1.47791E+0
3	1	0	0	5	0	Pass	1.44718E+0
4	1	0	1	5	0	Pass	1.61859E+0
5	1	0	1	5	0	Pass	1.78609E+0
6	1	0	1	5	0	Pass	1.40629E+0
7	1	0	1	5	0	Pass	1.40930E+0
8	1	0	2	5	0	Pass	1.43753E+0
9	1	0	2	5	0	Pass	1.57170E+0
10	1	0	2	5	0	Pass	1.51569E+0
11	1	0	2	5	0	Pass	1.49728E+0
12	1	0	3	5	0	Pass	1.53039E+0
13	1	0	3	5	0	Pass	1.65917E+0
14	1	0	3	5	0	Pass	1.60758E+0
15	1	0	3	5	0	Pass	1.42748E+0
16	1	0	4	5	0	Pass	1.45476E+0
17	1	0	4	5	0	Pass	1.43347E+0
18	1	0	4	5	0	Pass	1.39140E+0
19	1	0	4	5	0	Pass	1.35845E+0
20	1	0	5	5	0	Pass	1.55771E+0

21	1	0	5	5	0	Pass	1.53709E+0
22	1	0	5	5	0	Pass	1.51279E+0
23	1	0	5	5	0	Pass	1.51949E+0
24	1	0	6	5	0	Pass	1.50716E+0
25	1	0	6	5	0	Pass	1.49157E+0
26	1	0	6	5	0	Pass	1.84526E+0
27	1	0	6	5	0	Pass	1.42537E+0
28	1	0	7	5	0	Pass	1.70659E+0
29	1	0	7	5	0	Pass	1.43829E+0
30	1	0	7	5	0	Pass	1.57591E+0
31	1	0	7	5	0	Pass	1.55291E+0
32	1	1	0	5	0	Pass	1.70164E+0
33	1	1	0	5	0	Pass	1.74332E+0
34	1	1	0	5	0	Pass	1.65433E+0
35	1	1	0	5	0	Pass	1.60223E+0
36	1	1	1	5	0	Pass	1.60332E+0
37	1	1	1	5	0	Pass	1.70109E+0
38	1	1	1	5	0	Pass	1.51116E+0
39	1	1	1	5	0	Pass	1.61666E+0
40	1	1	2	5	0	Pass	1.69661E+0
41	1	1	2	5	0	Pass	1.66013E+0
42	1	1	2	5	0	Pass	1.63695E+0
43	1	1	2	5	0	Pass	1.62061E+0
44	1	1	3	5	0	Pass	1.79298E+0
45	1	1	3	5	0	Pass	1.73303E+0
46	1	1	3	5	0	Pass	1.80624E+0
47	1	1	3	5	0	Pass	1.60591E+0
48	1	1	4	5	0	Pass	1.59860E+0
49	1	1	4	5	0	Pass	2.11749E+0
50	1	1	4	5	0	Pass	1.67831E+0
51	1	1	4	5	0	Pass	1.68198E+0
52	1	1	5	5	0	Pass	1.72729E+0
53	1	1	5	5	0	Pass	1.69938E+0
54	1	1	5	5	0	Pass	1.69712E+0
55	1	1	5	5	0	Pass	1.73816E+0
56	1	1	6	5	0	Pass	1.75636E+0
57	1	1	6	5	0	Pass	1.60654E+0
58	1	1	6	5	0	Pass	1.80817E+0
59	1	1	6	5	0	Pass	1.56211E+0
60	1	1	7	5	0	Pass	1.70685E+0
61	1	1	7	5	0	Pass	1.76273E+0
62	1	1	7	5	0	Pass	1.70693E+0
63	1	1	7	5	0	Pass	1.66569E+0
64	1	2	0	5	0	Pass	1.58463E+0
65	1	2	0	5	0	Pass	1.53796E+0
66	1	2	0	5	0	Pass	1.49389E+0
67	1	2	0	5	0	Pass	1.47289E+0
68	1	2	1	5	0	Pass	1.44591E+0
69	1	2	1	5	0	Pass	1.45524E+0
70	1	2	1	5	0	Pass	1.59444E+0
71	1	2	1	5	0	Pass	1.53686E+0
72	1	2	2	5	0	Pass	1.59088E+0
73	1	2	2	5	0	Pass	1.57528E+0
74	1	2	2	5	0	Pass	1.54052E+0
75	1	2	2	5	0	Pass	1.49151E+0
76	1	2	3	5	0	Pass	1.47149E+0
77	1	2	3	5	0	Pass	1.47770E+0
78	1	2	3	5	0	Pass	1.41594E+0
79	1	2	3	5	0	Pass	1.37287E+0

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RI4152 BIT: Passed

RI 1260-120 Self Test: Passed

-120 Relay	-120 State	-138 MUX	-138 Relay	UL(Ohms)	LL(Ohms)	Status	MV
0	0	6	1	100000	0	Pass	99.00000E+36
1	0	6	1	100000	0	Pass	99.00000E+36

2	0	6	1	100000	0	Pass	99.00000E+36
3	0	6	1	100000	0	Pass	99.00000E+36
4	0	6	1	100000	0	Pass	99.00000E+36
5	0	6	1	100000	0	Pass	99.00000E+36
6	0	6	1	100000	0	Pass	99.00000E+36
7	0	6	1	100000	0	Pass	99.00000E+36
8	0	6	1	100000	0	Pass	99.00000E+36
9	0	6	1	100000	0	Pass	99.00000E+36
10	0	6	2	100000	0	Pass	99.00000E+36
11	0	6	2	100000	0	Pass	99.00000E+36
12	0	6	2	100000	0	Pass	99.00000E+36
13	0	6	2	100000	0	Pass	99.00000E+36
14	0	6	2	100000	0	Pass	99.00000E+36
15	0	6	2	100000	0	Pass	99.00000E+36
16	0	6	2	100000	0	Pass	99.00000E+36
17	0	6	2	100000	0	Pass	99.00000E+36
18	0	6	2	100000	0	Pass	99.00000E+36
19	0	6	2	100000	0	Pass	99.00000E+36
0	1	6	1	5	0	Pass	945.72400E-3
1	1	6	1	5	0	Pass	971.31000E-3
2	1	6	1	5	0	Pass	995.96600E-3
3	1	6	1	5	0	Pass	1.01849E+0
4	1	6	1	5	0	Pass	1.04824E+0
5	1	6	1	5	0	Pass	1.06946E+0
6	1	6	1	5	0	Pass	1.09473E+0
7	1	6	1	5	0	Pass	1.11288E+0
8	1	6	1	5	0	Pass	1.13997E+0
9	1	6	1	5	0	Pass	1.15907E+0
10	1	6	2	5	0	Pass	945.71600E-3
11	1	6	2	5	0	Pass	971.33500E-3
12	1	6	2	5	0	Pass	990.65400E-3
13	1	6	2	5	0	Pass	1.01244E+0
14	1	6	2	5	0	Pass	1.06418E+0
15	1	6	2	5	0	Pass	1.06045E+0
16	1	6	2	5	0	Pass	1.06501E+0
17	1	6	2	5	0	Pass	1.10810E+0
18	1	6	2	5	0	Pass	1.13643E+0
19	1	6	2	5	0	Pass	1.15130E+0

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RI4152 BIT:
RI4152 Passed BIT

RI 1260-138 Self Test: Passed

-138 State	-138 MUX	-138 Relay	UL(Ohms)	LL(Ohms)	Status	MV
0	2	7	100000	0	Pass	99.0000E+36
0	4	0	100000	0	Pass	99.0000E+36
0	6	0	100000	0	Pass	99.0000E+36
0	7	0	100000	0	Pass	99.0000E+36
1	2	7	5	0	Pass	989.9500E-3
1	4	0	5	0	Pass	1.1000E+0
1	6	0	5	0	Pass	890.8810E-3
1	7	0	5	0	Pass	1.0640E+0

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RI 6065-8 BIT: Passed

RI 6065-8 Self Test: Passed

Baud Rate	TX Chan	TX String	RX Chan	RX String	Status
38,400	1	The quick brown fox jumps over the lazy dog	2	The quick brown fox jumps over the lazy dog	Passed
38,400	3	The quick brown fox jumps over the lazy dog	4	The quick brown fox jumps over the lazy dog	Passed
38,400	5	The quick brown fox jumps over the lazy dog	6	The quick brown fox jumps over the lazy dog	Passed
38,400	7	The quick brown fox jumps over the lazy dog	8	The quick brown fox jumps over the lazy dog	Passed
38,400	2	This is a Self-Test in the opposite direction	1	This is a Self-Test in the opposite direction	Passed

38,400	4	This is a Self-Test in the opposite direction	3	This is a Self-Test in the opposite direction	Passed
38,400	6	This is a Self-Test in the opposite direction	5	This is a Self-Test in the opposite direction	Passed
38,400	8	This is a Self-Test in the opposite direction	7	This is a Self-Test in the opposite direction	Passed

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HP66101 Power Supply & HP6050 Electronic Load BIT:
HP66101A #1 Power Supply Passed BIT

HP6050 Load Chassis Passed BIT

HP66101 Power Supply/HP6050 Electronic Load Self Test:

Instrument	Chan	Test Res	Test Volt	Test Curr	Up Lim	Lo Lim	Status	MV
HP66101A	1*	100.00	7.50	1.00	0.10 Amps	0.03 Amps	Passed	67.3462E-3 Amps*
RI4152A	1	100.00	7.50	1.00	7.25 Volts	8.00 Volts	Passed	7.4970E+0 Volts

*NOTE: Measured Current at HP66101 Source.

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HP66101 Power Supply #2 & HP6050 Electronic Load BIT:
HP66101A #2 Power Supply Passed BIT

HP6050 Load Chassis Passed BIT

HP66101 Power Supply #2/HP6050 Electronic Load Self Test:

Instrument	Chan	Test Res	Test Volt	Test Curr	Up Lim	Lo Lim	Status	MV
HP66101A	2*	100.00	7.50	1.00	0.10 Amps	0.03 Amps	Passed	72.9972E-3 Amps*
RI4152A	1	100.00	7.50	1.00	7.25 Volts	8.00 Volts	Passed	7.4961E+0 Volts

*NOTE: Measured Current at HP66101 Source.

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HP66103 Power Supply & HP6050 Electronic Load BIT:
HP66103A #1 Power Supply Passed BIT
HP6050 Load Chassis Passed BIT

HP66103 Power Supply/HP6050 Electronic Load Self Test:

Instrument	Chan	Test Res	Test Volt	Test Curr	Up Lim	Lo Lim	Status	MV
HP66103A	1*	100.00	25.00	1.00	0.40 Amps	0.10 Amps	Passed	271.6910E-3 Amps*
RI4152A	1	100.00	25.00	1.00	24.00 Volts	26.00 Volts	Passed	24.9966E+0 Volts

*NOTE: Measured Current at HP66103 Source.

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HP66103 Power Supply & HP6050 Electronic Load BIT:
HP66103A #2 Power Supply Passed BIT
HP6050 Load Chassis Passed BIT

HP66103 Power Supply/HP6050 Electronic Load Self Test:

Instrument	Chan	Test Res	Test Volt	Test Curr	Up Lim	Lo Lim	Status	MV
HP66103A	2*	100.00	25.00	1.00	0.40 Amps	0.10 Amps	Passed	253.8270E-3 Amps*
RI4152A	1	100.00	25.00	1.00	24.00 Volts	26.00 Volts	Passed	24.9894E+0 Volts

*NOTE: Measured Current at HP66103 Source.

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HP66103 Power Supply & HP6050 Electronic Load BIT:
 HP66103A #3 Power Supply Passed BIT
 HP6050 Load Chassls Passed BIT

HP66103 Power Supply/HP6050 Electronic Load Self Test:

Instrument	Chan	Test Res	Test Volt	Test Curr	Up Lim	Lo Lim	Status	MV
HP66103A	3*	100.00	25.00	1.00	0.40 Amps	0.10 Amps	Passed	249.4860E-3 Amps*
RI4152A	1	100.00	25.00	1.00	24.00 Volts	26.00 Volts	Passed	24.9888E+0 Volts

*NOTE: Measured Current at HP66103 Source.

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HP66103 Power Supply & HP6050 Electronic Load BIT:
 HP66103A #4 Power Supply Passed BIT
 HP6050 Load Chassis Passed BIT

HP66103 Power Supply/HP6050 Electronic Load Self Test:

Instrument	Chan	Test Res	Test Volt	Test Curr	Up Lim	Lo Lim	Status	MV
HP66103A	4*	100.00	25.00	1.00	0.40 Amps	0.10 Amps	Passed	248.3800E-3 Amps*
RI4152A	1	100.00	25.00	1.00	24.00 Volts	26.00 Volts	Passed	24.9920E+0 Volts

*NOTE: Measured Current at HP66103 Source.

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HP66103 Power Supply & RI4152A DMM BIT:
 HP66103A #5 Power Supply Passed BIT
 RI4152A DMM Passed BIT

HP66103 Power Supply/RI4152A DMM Self Test:

Instrument	Chan	Test Res	Test Volt	Test Curr	Up Lim	Lo Lim	Status	MV
HP66103A	5*	100.00	25.00	1.00	24.00 Volts	26.00 Volts	Passed	25.0076E+0 Volts*
RI4152A	1	100.00	25.00	1.00	24.00 Volts	26.00 Volts	Passed	25.0070E+0 Volts

*NOTE: Measured Voltage at HP66101 Source.

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RI3151 Waveform Generator & RI2461 C/T BIT:
 RI3151 Arb Passed BIT
 RI2461 C/T Passed BIT
 RI3151 Waveform Generator & RI2461 C/T Self Test: Passed

Test Freq(Hz)	Test Ampl(Vp1p)	Instrument	-150 A	-150 ARel	-150 B	-150 BRel	Lower	Upper	Status	Meas Val
3000.00	24.00	RI2461 1	0	5	0	2800.00	3200.00	Passed		3.000000E+3 Hz
3000.00	24.00	TDS460A 1	0	5	0	2800.00	3200.00	Passed		3.000000E+3 Hz
3000.00	24.00	TDS460A 1	0	5	0	23.40	25.60	Passed		23.800000E+0 V
3000.00	24.00	RI2461 1	1	5	1	2800.00	3200.00	Passed		3.000000E+3 Hz
3000.00	24.00	TDS460A 1	1	5	1	2800.00	3200.00	Passed		3.003000E+3 Hz
3000.00	24.00	TDS460A 1	1	5	1	23.40	25.60	Passed		23.800000E+0 V
3000.00	24.00	RI2461 1	2	5	2	2800.00	3200.00	Passed		3.000000E+3 Hz
3000.00	24.00	TDS460A 1	2	5	2	2800.00	3200.00	Passed		3.000000E+3 Hz
3000.00	24.00	TDS460A 1	2	5	2	23.40	25.60	Passed		24.000000E+0 V
3000.00	24.00	RI2461 1	3	5	3	2800.00	3200.00	Passed		3.000000E+3 Hz
3000.00	24.00	TDS460A 1	3	5	3	2800.00	3200.00	Passed		3.003000E+3 Hz
3000.00	24.00	TDS460A 1	3	5	3	23.40	25.60	Passed		23.800000E+0 V
3000.00	24.00	RI2461 2	0	6	0	2800.00	3200.00	Passed		3.000000E+3 Hz
3000.00	24.00	TDS460A 2	0	6	0	2800.00	3200.00	Passed		3.000000E+3 Hz
3000.00	24.00	TDS460A 2	0	6	0	23.40	25.60	Passed		24.000000E+0 V
3000.00	24.00	RI2461 2	1	6	1	2800.00	3200.00	Passed		3.000000E+3 Hz
3000.00	24.00	TDS460A 2	1	6	1	2800.00	3200.00	Passed		2.994000E+3 Hz
3000.00	24.00	TDS460A 2	1	6	1	23.40	25.60	Passed		24.000000E+0 V
3000.00	24.00	RI2461 2	2	6	2	2800.00	3200.00	Passed		3.000000E+3 Hz

3000.00	24.00	TDS460A	2	2	6	2	2800.00	3200.00	Passed	2.994000E+3 Hz
3000.00	24.00	TDS460A	2	2	6	2	23.40	25.60	Passed	24.000000E+0 V
3000.00	24.00	RI2461	2	3	6	3	2800.00	3200.00	Passed	3.000000E+3 Hz
3000.00	24.00	TDS460A	2	3	6	3	2800.00	3200.00	Passed	2.994000E+3 Hz
3000.00	24.00	TDS460A	2	3	6	3	23.40	25.60	Passed	24.000000E+0 V
3000.00	24.00	RI2461	3	0	7	0	2800.00	3200.00	Passed	3.000000E+3 Hz
3000.00	24.00	TDS460A	3	0	7	0	2800.00	3200.00	Passed	2.998500E+3 Hz
3000.00	24.00	TDS460A	3	0	7	0	23.40	25.60	Passed	24.000000E+0 V
3000.00	24.00	RI2461	3	1	7	1	2800.00	3200.00	Passed	3.000000E+3 Hz
3000.00	24.00	TDS460A	3	1	7	1	2800.00	3200.00	Passed	2.997000E+3 Hz
3000.00	24.00	TDS460A	3	1	7	1	23.40	25.60	Passed	24.000000E+0 V
3000.00	24.00	RI2461	3	2	7	2	2800.00	3200.00	Passed	3.000000E+3 Hz
3000.00	24.00	TDS460A	3	2	7	2	2800.00	3200.00	Passed	3.001500E+3 Hz
3000.00	24.00	TDS460A	3	2	7	2	23.40	25.60	Passed	24.200000E+0 V
3000.00	24.00	RI2461	3	3	7	3	2800.00	3200.00	Passed	3.000000E+3 Hz
3000.00	24.00	TDS460A	3	3	7	3	2800.00	3200.00	Passed	2.997000E+3 Hz
3000.00	24.00	TDS460A	3	3	7	3	23.40	25.60	Passed	23.800000E+0 V
3000.00	24.00	RI2461	4	0	8	0	2800.00	3200.00	Passed	3.000000E+3 Hz
3000.00	24.00	TDS460A	4	0	8	0	2800.00	3200.00	Passed	3.000000E+3 Hz
3000.00	24.00	TDS460A	4	0	8	0	23.40	25.60	Passed	24.000000E+0 V
3000.00	24.00	RI2461	4	1	8	1	2800.00	3200.00	Passed	3.000000E+3 Hz
3000.00	24.00	TDS460A	4	1	8	1	2800.00	3200.00	Passed	3.001500E+3 Hz
3000.00	24.00	TDS460A	4	1	8	1	23.40	25.60	Passed	24.000000E+0 V
3000.00	24.00	RI2461	4	2	8	2	2800.00	3200.00	Passed	3.000000E+3 Hz
3000.00	24.00	TDS460A	4	2	8	2	2800.00	3200.00	Passed	3.003000E+3 Hz
3000.00	24.00	TDS460A	4	2	8	2	23.40	25.60	Passed	24.000000E+0 V
3000.00	24.00	RI2461	4	3	8	3	2800.00	3200.00	Passed	3.000000E+3 Hz
3000.00	24.00	TDS460A	4	3	8	3	2800.00	3200.00	Passed	3.003000E+3 Hz
3000.00	24.00	TDS460A	4	3	8	3	23.40	25.60	Passed	24.000000E+0 V

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RI 4152 DMM BIT Test

BIT Test Status
BIT Test Passed

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Keithley 236 SMU#1 Self Test Passed

Source	Level(Volts)	LL(Volts)	UL(Volts)	Status	MV(Volts)
SMU #1	10.0000E+0	9.50	10.50	Passed	10.0004E+0

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Keithley 236 SMU#2 Self Test Passed

Source	Level(Volts)	LL(Volts)	UL(Volts)	Status	MV(Volts)
SMU #2	10.0000E+0	9.50	10.50	Passed	10.0009E+0

***** END OF REPORT *****

Figure 3-1, Self-Test Report Excerpt

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Chapter 4

SELF-TEST TEST PROGRAM SET

Description	The Waters Self-Test is designed to exercise each of the test station assets in either a Built In Test (BIT) or wraparound configuration. The Self-Test can be run in an individual instrument mode or system end-to-end mode (ALL TESTs).
Self-test Sequence	Once the Operator has selected either the ALL TESTS option or an individual instrument for Self-Test, the sequencer will display a complete list of the system assets. As a test is executed, all of the assets required to perform that test will be indicated in the status column. Upon completion of each test the status will change to indicate a PASS or FAIL of that Self-Test module. The Operator can then either exit the status page and return to the main sequencer screen to select another test, or press the PRINT REPORT button to initiate Self-Test data collection and printing instructions. Each of the additional asset-related tests are fully described in the <i>ACCEPTANCE TEST PLAN, SELFTEST</i> – document 11298003.
Self-test ITA	The Self-Test Interface Test Adapter (ITA), part number 12840003, is a passive wrap-back adapter facilitating Self-Test of the system. The ITA contains stranded wire and coax.
Self-test Required Files	The following files (VIs) are required to execute the Self-Test. These are the files installed when Setup.exe is run from the installation CD-ROM #12892001.

Filename	Description
Self-Test Main Screen.vi	LabVIEW vi used to direct selftest execution
Selftest status1.vi	LabVIEW vi used to show selftest resources being used and selftest status
Self Test for DMM(bit).vi	LabVIEW vi used to perform (a bit) selftest on RI4152A DMM
Self Test for RI2461(bit).vi	LabVIEW vi used to perform (a bit) selftest on RI2461 C/T
Self Test for CT&Arb&Scope.vi	LabVIEW vi used to perform selftest on RI 3151 ARB using C/T and Scope
Self Test for RI 6065 Serial 3.vi	LabVIEW vi used to perform selftest on RI 6065
Self Test for -117 Card.vi	LabVIEW vi used to perform selftest on RI 1260-117 switch
Self Test for -118 Card.vi	LabVIEW vi used to perform selftest on RI 1260-118 switch
Self Test for -138 Card.vi	LabVIEW vi used to perform selftest on RI1260-138 switch
Self Test for -120 Card.vi	LabVIEW vi used to perform selftest on RI 1260-120 switch
Self Test for -114 Card.vi	LabVIEW vi used to perform selftest on RI 1260-114 switch
HP66101A_1 PS & HP6050A.vi	LabVIEW vi used to perform selftest on HP66101 P/S #1 and HP6050 Load
HP66101A_2 PS & HP6050A.vi	LabVIEW vi used to perform selftest on HP66101 P/S #1 and HP6050 Load
HP66103A_1 PS & HP6050A.vi	LabVIEW vi used to perform selftest on HP66103 P/S #1 and HP6050 Load
HP66103A_2 PS & HP6050A.vi	LabVIEW vi used to perform selftest on HP66103 P/S #2 and HP6050 Load
HP66103A_3 PS & HP6050A.vi	LabVIEW vi used to perform selftest on HP66103 P/S #3 and HP6050 Load
HP66103A_4 PS & HP6050A.vi	LabVIEW vi used to perform selftest on HP66103 P/S #4 and HP6050 Load
HP66103A_5 PS & RI4152A DMM.vi	LabVIEW vi used to perform selftest on HP66103 P/S #5 and RI4152A DMM
Self Test of HP6050(bit).vi	LabVIEW vi used to perform (a bit) selftest on HP6050 Load
Self Test for SMU_1.vi	LabVIEW vi used to perform selftest on SMU #1
Self Test for SMU_2.vi	LabVIEW vi used to perform selftest on SMU #2
Tek TDS Self-Test.vi	LabVIEW vi used to perform selftest on TDS420 Oscilloscope
Self Test Report Generator.vi	LabVIEW vi used to generate self-test report

Self-Test System Software Files

The following files are the system software files used to link the Self-Test vis to the System Software.

Filename	Description
SYSTEM-1260.vi	LabVIEW vi used in defining Visa Session variable for RI 1260 switches by reading "strings" used for addressing instruments from text file
SYSTEM-236.vi	LabVIEW vi used in defining Visa Session variables for Keithley 236 SMUs by reading "strings" used for addressing instruments from text file
SYSTEM-2461.vi	LabVIEW vi used in defining Visa Session variable for RI 2461 counter/timer by reading "strings" used for addressing instruments from text file
SYSTEM-3151.vi	LabVIEW vi used in defining Visa Session variable for RI 3151 waveform generator by reading "strings" used for addressing instruments from text file
SYSTEM-4152A.vi	LabVIEW vi used in defining Visa Session variable for RI 4152A DMM by reading "strings" used for addressing instruments from text file
SYSTEM-460.vi	LabVIEW vi used in defining Visa Session variable for Tektronix 460 Oscilloscope by reading "strings" used for addressing instruments from text file
SYSTEM-6050A.vi	LabVIEW vi used in defining Visa Session variable for Agilent 6050A electronic load by reading "strings" used for addressing instruments from text file.
SYSTEM-6065.vi	LabVIEW vi used in defining Visa Session variable RI 6065 serial module by reading "strings" used for addressing instruments from text file
SYSTEM-66000.vi	LabVIEW vi used in defining Visa Session variable for Agilent 661xxA power supplies by reading "strings" used for addressing instruments from text file
1260-TPS.vi	This VI uses the VI Server function to call by reference the SYSTEM-1260.vi
Keith 236 -TPS.vi	This VI uses the VI Server function to call by reference the SYSTEM-236.vi
Ri2461A-TPS.vi	This VI uses the VI Server function to call by reference the SYSTEM-2461.vi
RI3151-TPS.vi	This VI uses the VI Server function to call by reference the SYSTEM-3151.vi
DMM - TPS.vi	This VI uses the VI Server function to call by reference the SYSTEM-4152A.vi
Tek TDS 4xx - TPS.vi	This VI uses the VI Server function to call by reference the SYSTEM-460.vi
HP 6050A-TPS.vi	This VI uses the VI Server function to call by reference the SYSTEM-6050A.vi
RI6065 - TPS.vi	This VI uses the VI Server function to call by reference the SYSTEM-6065.vi
HP6610XA - TPS.vi	This VI uses the VI Server function to call by reference the SYSTEM-66000.vi
1260 Top Level.vi	Top Level driver for RI1260 DMM
Keith 236 Top Level.vi	Top Level driver for Keithley 236 SMU
RI2461A Top Level.vi	Top Level driver for RI2461A counter/timer

Filename	Description
RI3151 Top Level.vi	Top Level driver for RI3151 waveform generator
DMM Top Level.vi	Top Level driver for RI 4152A DMM
Tek TDS 4xx Top Level.vi	Top Level driver for Tektronix 460 Oscilloscope
HP 6050A Top Level.vi	Top Level driver for Agilent 6050A electronic load
RI6065 Top Level.vi	Top Level driver for RI 6065 serial module
HP6610XA Top Level.vi	Top Level driver for Agilent 661xxA power supplies

Chapter 5

NOTES

List of Acronyms and Abbreviations

ATS	Acceptance Test Station
BIT	Built In Test
CD	Compact Disk
ITA	Interface Test Adapter
REV	Revision
TPS	Test Program Set
UUT	Unit Under Test
VI	Virtual Instrument
VXI	VMEbus eXtensions for Instrumentation

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