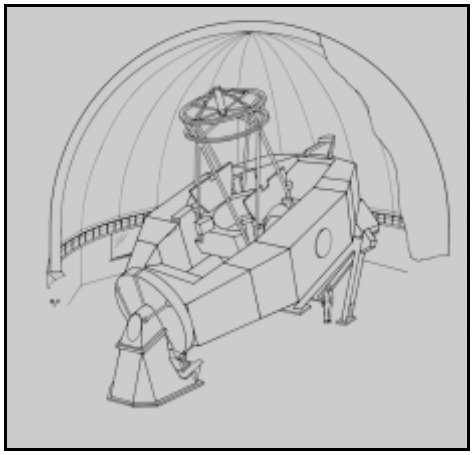
REV	DESCRIPTION	DATE	BY
-	Initial Release	7/18/08	EAW

TP-PC1000
Platform Controller Test Procedure
Revision: -

SERIAL NUMBER TESTED _____



TP-PC1000 Rev -

University of Hawaii
Institute for Astronomy

FILENAME: TP-PC1000_Platfrom_Controller_TP.doc

LAST SAVE: 7/18/2008 10:39 AM

TABLE OF CONTENTS

TABLE OF REPORT TABLES

TP-PC1000 Rev -

1 Test Overview

This test procedure is intended to present a simple, quick, DC only test to verify that the platform controller boards will operate correctly.

All fields with a *yellow background* are recordable data fields and must be completed.

2 Equipment and Tools Required

The table below lists the equipment and tools required to complete this test procedure.

Item #	Qty	Model / Part Number	Description
1	1	Fluke 179 (or equivalent)	Fluke Multimeter
2	1	-	+12V Supply
3	1	-	+1V Voltage Source (e.g. supply)
4	1	-	Wire with Minigrabber on one end.
5	REF	PC-1001	Platform Controller Schematics
6	2	-	50 +/-10% ohm leaded resistors
7	1	PC1000	Platform Controller CCA (unit under test)

T

Table 1 Required Test Equipment

3 Test Setup

Follow these steps for the setup.

1. Connect the +12V supply to TP8 “Vsupply”.
2. Connect the +12V return to any black test point on the board “GND”.
3. Connect the +1V return to any black test point on the board “GND”.
4. Place the 50 ohm resistors in “Act_Test_1” and “Act_Test_2” sockets.

4 Testing

There are two circuits (side 1 & 2) on this board. Both will have to be tested. For each side, measurements will be made with the +1V supply connected to “CMD_1” (or “CMD_2”) and with +1V disconnected.

Test Point	Label	Voltage (V) (+1V Disconnected)	Spec (V)	Voltage (V) (+1V Connected to TP7)	Spec (V)	Tester Initials	Date
TP9	“BR_RED_1”		5.6 to 5.7		7.3 to 7.5		
TP10	“BR_BLK_1”		5.6 to 5.7		3.8 to 4.0		
Difference: TP9 – TP10			0.050		3.4 to 3.6		

Table 2 Side1 Testing

Test Point	Label	Voltage (V) (+1V Disconnected)	Spec (V)	Voltage (V) (+1V Connected to TP13)	Spec (V)	Tester Initials	Date
TP11	“BR_RED_2”		5.6 to 5.7		7.3 to 7.5		
TP12	“BR_BLK_2”		5.6 to 5.7		3.8 to 4.0		
Difference: TP11 – TP12			0.050		3.4 to 3.6		

Table 3 Side 2 Testing

Did all tests pass? (circle one) PASS FAIL