

REV NO. 1	TITLE	CONT ON SHEET 2	SH NO. 1
P3K-AL-0053-A01	CURRENT/VOLTAGE CONVERTER CIRCUIT BOARD TEST		
CONT ON SHEET 2	FIRST MADE FOR		
SH NO. 1	114D7371 G1 & G2		

General Description

The input to this board is a current signal from the output of the Rosemount transducer. The transducer output signal is 4 to 20 ma for a pressure change of 0 to rated pressure. The current to voltage converter changes this 4 to 20 ma current signal into a 0 to 5 VDC voltage signal at its output.

* NOTE: 114D7371 G2 has lag-lead network, special for X330.

Test Set-Up

1. Connect pin 17 to +30 VDC.
2. Connect pin 21 to -22 VDC.
3. Connect pins 1, 19 & 41 to HQ Gnd.
4. Connect a 10K resistor between pin 2 and pin 19.
5. Connect a 10K resistor between pin 39 and pin 19.
6. Connect a power supply capable of delivering 20 ma to pin 23 and pin 25.

Test Procedure

* 114D7371 G1 and G2

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Input voltages should be set to ± 10 MVDC. Output voltages should be read within ± 100 MVDC of stated values, unless specified otherwise.

1. Check to see that the TP4 voltage is $+13 \pm 1.3$ VDC.
2. Check to see that the TP2 voltage is -13 ± 1.3 VDC. - 13 VDC
3. Turn R3 fully CW. The TP3 voltage should be at least $+1.25$ VDC.
4. Turn R3 fully CCW. The TP3 voltage should be at least -1.25 VDC.

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ISSUED	Steam Turbine	LOCATION	CONT ON SHEET 2
	Schenectady, N. Y.		SH NO. 1

REVISIONS

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114D7371 G2

273-2
273-221
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PRINTS TO

PF-003-WA (2-64)
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REV NO. 1

TITLE

CONT ON SHEET ----- SH NO. 3

P3K-AL-0053-A01

CURRENT/VOLTAGE CONVERTER CIRCUIT BOARD TEST

CONT ON SHEET ----- SH NO. 3

FIRST MADE FOR 114D7371 G1 & G2

REVISION

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OCT 29 1975

APPROVALS

Steam Turbine

Schenectady, N. Y.

DIV OR DEPT.

LOCATION

P3K-AL-0053-A01

CONT ON SHEET ----- SH NO. 3

Data Sheet

Job # _____						Burn-in Start _____		
Serial # _____						Burn-in Stop _____		
Date _____						Technician _____		
Data Sheet for ___ 114D7371G0001 _____								
Test Procedure ___ P3K-AL-0053-A01 _____								
Test Procedure Step	Nominal	Lower Limit	Pre-Burn in Results	Post Burn in Results	Upper Limit	Pot Values If applicable		Pass/Fail
						CW	CCW	
1	+13V	+11.7V			+14.3V			
2	-13V	-11.7V			-14.3V			
3	> +1.25V							
4	< -1.25V							
5	0V	-.001V			+.001V			
6	0V	-.001V			+.001V			
6 - R2								
7	0V	-.001V			+.001V			
8	-5V	-4.99V			-5.01V			
8 - R1								
9	-2.5V	-2.49V			-2.51V			
10	> +1.25V							
11	< -1.25V							
12	0V	-.01V			+.01V			
13	0V	-.01V			+.01V			
13 - R5								
14	0V	-.01V			+.01V			
15	-5V	-4.99V			-5.01V			
15 - R6								
16	-2.5V	-2.49V			-2.51V			
17		0V			0V			
Comment: Tolerances tighten x 10 for Brunswick								