

REV NO. 0	TITLE TEST PROCEDURE - POWER SUPPLY ROSEMOUNT TRANSDUCER		CONT ON SHEET 2	SH NO. 1
P3K-AL-0257		FIRST MADE FOR MARK I		
I. PURPOSE				
The purpose of this specification is to convey the proper information needed to test the Power Supply - Rosemount Transducer; Assembly No. 142D7210.				
II. DOCUMENTS PERTAINING TO THIS SPECIFICATION				
A. Power Supply - U6028AF Pt. 2				
B. Pressure Transducer - U5151 Pt. 1				
C.				
III. EQUIPMENT NEEDED TO TEST				
A. 1 - DC Ohmmeter - 5% (M7)				
B. 3 - DC Voltmeter - 30 VDC 1% (M1, M2, M6)				
C. 1 - Variac - 0-120 VAC 1 ampere (V1)				
D. 2 - DC Ammeter - 0-100 ma 1% (M3, M4)				
E. 1 - AC Voltmeter - 0-150 VAC 5% (M5) (68A7020P350D)				
F. 2 - Resistors - 350Ω 1/2% 5 watts (R1, R2)				
IV. CIRCUIT DESCRIPTION				
This circuit board consists of two miniature power supplies mounted on the board. The 120 VAC power is fed into these supplies, is rectified, filtered to 28 VDC and 80 ma current. By connecting various jumpers the supplies can be used alone, in parallel, or the output can be commoned.				
V. TEST INSTRUCTIONS				
A. -G001 Tests				
1. Using M7, measure 0 ohms between: Pins 30 and 28; and Pins 34 and 36; and greater than one megohm between pins 6 and 23.				
2. Connect the circuit board as per Figure 1a.				
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V. TEST INSTRUCTIONS				REVISION
A.				
3. Set the variac until M5 reads 120 ± 1 VAC.				
4. M1 and M2 shall read $+28 \pm 0.3$ VDC.				
5. M3 and M4 shall read 80 ± 1 ma DC.				
6. Using M6 measure the voltage between pins 3 and 26. (minus on 26) This voltage shall read 0 VDC.				
7. Measure the voltage between pins 6 and 23. (minus on 23) This voltage shall be 0 VDC.				
8. Set variac until M5 reads 0 VAC.				
9. Connect the circuit board as per Figure 1b.				
10. Repeat step two through seven.				
11. Disconnect all test equipment, test over.				
B. -G002 Tests				
1. Using M7, measure 0 ohms between: Pins 30 and 28; and pins 6 and 23, and pins 34 and 36.				
2. Connect the circuit board per Figure 1a.				
3. Set variac until M5 reads 120 ± 1 VAC.				
4. M1 and M2 shall read $+28 \pm 0.3$ VDC.				
5. M3 and M4 shall read 80 ± 1 ma DC.				
6. Using M6 measure the voltage between pins 3 and 26. This voltage shall be 56 ± 2 VDC.				
7. Set variac until M5 reads 0 VAC.				
8. Connect the circuit board as per Figure 1b.				
9. Repeat steps two though six.				
10. Disconnect all test equipment, test over.				
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TEST PROCEDURE - POWER SUPPLY
ROSEMOUNT TRANSDUCER

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V. TEST INSTRUCTIONS

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C. -G003 Tests

1. Using M7, measure 0 ohms between pins 6 and 23; greater than one megohm between pins 30 and 28, and pins 34 and 36.
2. Connect the circuit card per Figure 1a.
3. Set variac until M5 reads 120 ± 1 VAC.
4. M1 shall read 28 ± 0.1 VDC.
5. M3 shall read 80 ± 1 ma DC.
6. M2 and M4 shall read 0 VDC and 0 ma DC.
7. Set variac until M5 reads 0 VAC.
8. Connect the circuit board per Figure 1b.
9. Set variac until M5 reads 120 ± 1 VAC.
10. M2 shall read 28 ± 0.1 VDC.
11. M4 shall read 80 ± 1 ma DC.
12. M1 and M3 shall read 0 VDC and 0 ma DC.
13. Set variac until M5 reads 0 VDC.
14. Disconnect all test equipment, test over.

D. -G004 Tests

1. Using M7, measure one megohm between pins 30 and 28; pins 34 and 36, and pins 6 and 23.
2. Connect the circuit board as per Figure 1a.
3. Set variac until M5 reads 120 ± 1 VAC.
4. M1 shall read 28 ± 0.1 VDC.
5. M3 shall read 80 ± 1 ma VDC.
6. M2 and M4 shall read 0 VDC and 0 ma DC.
7. Set variac until M5 reads 0 VAC.

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V. TEST INSTRUCTIONS				
D.				
8. Connect circuit board as per Figure 1b.				
9. Set variac until M5 reads 120 ± 1 VAC.				
10. M2 shall read 28 ± 0.1 VDC.				
11. M4 shall read 80 ± 1 ma DC.				
12. M1 and M3 shall read 0 VDC and 0 ma DC.				
13. Set variac until M5 reads 0 VAC.				
14. Disconnect all test equipment, test over.				
NOTE: If any parameter does not meet the called-out value, stop testing and notify Control Engineering.				
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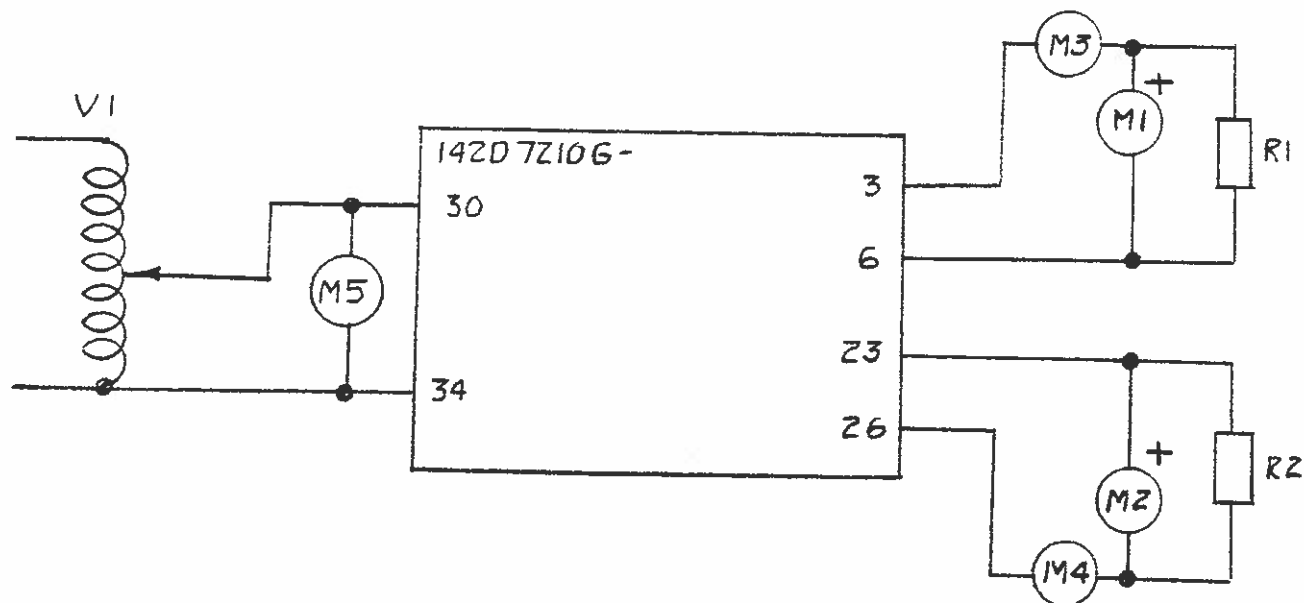


FIGURE 1a TEST CONNECTIONS

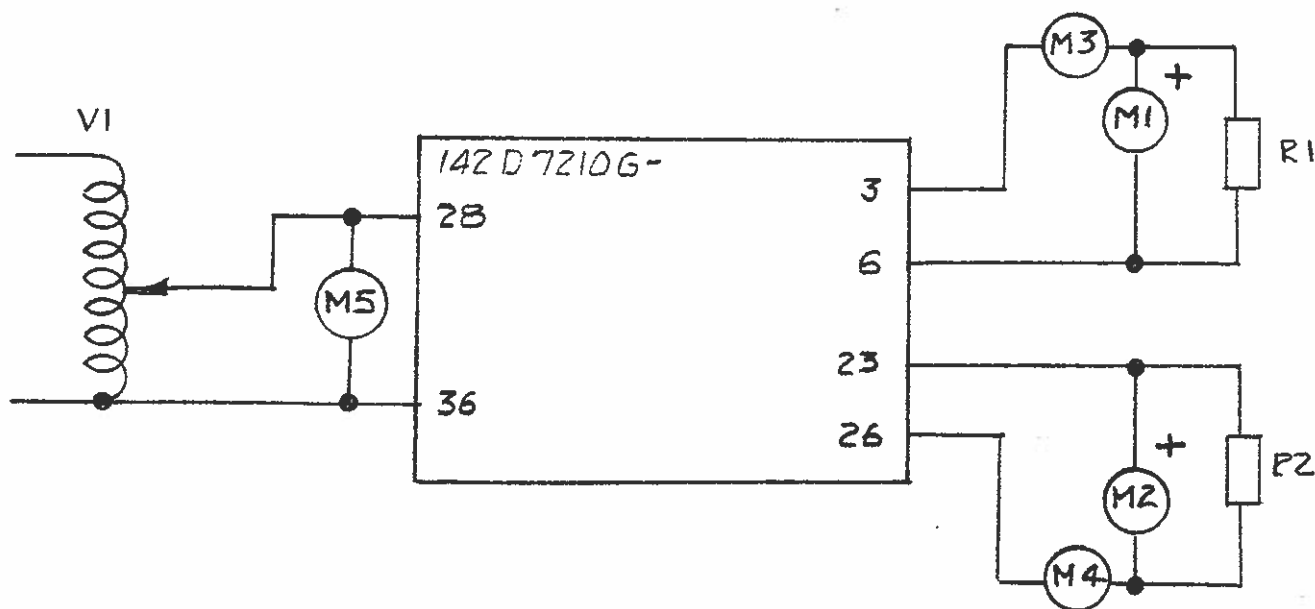


FIGURE 1b TEST CONNECTIONS

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C.J. Barrigher
Barrigher

DATE 11/29/77

REVIEWED BY:

P.C. Callan - Manager
EHC DESIGN ENGINEERING

DATE 11-29-77

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J. Polacek Dec. 8, 1977

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Data Sheet

Job # <u>9000 7789</u>						Burn-in Start <u>3-6-12 @ 8:30 Am</u>		
Serial # <u>P50886</u>						Burn-in Stop <u>3-13-12</u>		
Date <u>3-6-12</u>						Technician <u>WGC</u>		
Data Sheet for <u>142D7210G0001</u>								
Test Procedure <u>P3K-A1-0757</u>								
Test Procedure Step	Nominal	Lower Limit	Pre-Burn in Results	Post Burn in Results	Upper Limit	Pot Values If applicable		Pass/Fail
						CW	CCW	
1A	0 Ω		0 Ω	0 Ω				
1B	71 meg	1 meg Ω	Open	open				
4 m1	+28V	+27.7	+27.750	+27.752	+28.3			
4 m2	+28V	+27.7	+27.746	+27.753	+28.3			
5 m3	80ma	79ma	79.4 mA	79.4 mg	81mg			
5 m4	80ma	79ma	79.4 mA	79.4 mg	81mg			
6	0V		0.0V	0.0V				
7	0V		0.0V	0.0V				
4 m1	+28V	+27.7	+27.750	+27.750	+28.3			
4 m2	+28V	+27.7	+27.751	+27.749	+28.3			
5 m3	80ma	79ma	79.4ma	79.4mg	81mg			
5 m4	80ma	79ma	79.4ma	79.4mg	81mg			
6	0V	0V	0.0V	0.0V				
7	0V	0V	0.0V	0.0V				