

REVISIONS			
REV	DESCRIPTION	DATE	APP
A	ORIGINAL RELEASE PER DDR	11/02/05	ADG

GENERAL NOTES:

1. THE MODEL PA1001A SHOULD BE PLACED IN A CONVENIENT LOCATION THAT MAINTAINS ACCESS TO THE UNIT SHOULD REPAIRS OR READJUSTMENT BE REQUIRED.
2. CONNECTIONS TO THE TERMINAL BLOCK SHOULD BE CAREFULLY DRESSED TO AVOID HAVING BARE WIRES EXTEND PASS THE SCREW CLAMP ON THE TERMINAL BLOCK. THIS IS PARTICULARLY IMPORTANT WHEN THE PC CARD IS MOUNTED WITHIN AN EXPLOSION PROOF ENCLOSURE. WIRES SHOULD BE NEATLY DRESSED NEAR BOTTOM OF ENCLOSURE TO PREVENT PROBLEMS WHEN COVER IS INSTALLED.
3. FOR COMPLIANCE WITH EMI/RFI REQUIREMENTS THE PRE-AMPLIFIER MUST BE INSTALLED IN A METAL ENCLOSURE SUCH AS A SUITABLE NEMA 4 (E.G. GUAC) JUNCTION BOX. THE ENCLOSURE MUST BE PROPERLY GROUNDED AND A GROUNDING STRAP IS REQUIRED FROM THE ENCLOSURE TO THE POWER SUPPLY COMMON (PIN 7).
4. THE CABLE ENTRY REQUIRES 360° GROUNDING COVERAGE TO THE ENCLOSURE CASE. THIS IS OBTAINED BY USING TWISTED PAIR WITH FULL BRAID CABLE AND A CABLE FITTING THAT PROVIDES A METAL TO METAL CABLE CLAMPING CONNECTION. THE INSULATION OF THE CABLES SHOULD BE STRIPPED BACK TO ALLOW FOR CONNECTION TO THE TERMINAL BLOCK AND ALLOW FOR THE CABLE FITTING TO CLAMP ONTO THE BRAIDED SHIELD. ANY OPEN AREAS SHOULD THEN BE COVERED USING FOIL TAPE.
5. IN HAZARDOUS LOCATIONS WHERE METAL CONDUIT IS USED, 360° GROUNDING IS ACHIEVED. ALL CABLE SHIELDS SHOULD BE TERMINATED TO THE ENCLOSURE-GROUNDING STUD.

MATERIAL	APPROVALS				MOTION SENSORS INC. ELIZABETH CITY, NC 27909				
NONE	DRAWN D.GUYDAN	DATE 10/28/05			TITLE INSTALLATION DRAWING PA1001A PRE-AMPLIFIER				
FINISH	CHECK J.DEFEO	11/02/05							
NONE	ISSUED M.BERGMAN	11/02/05			SIZE A CAGE CODE OY2U4 DWG NO ST-A-1555 REV A				
CONFIDENTIAL PROPERTY OF MOTION SENSORS, INC. (MSI) NOT TO BE DISCLOSED TO OTHERS, REPRODUCED, OR USED FOR ANY OTHER PURPOSE, EXCEPT AS AUTHORIZED IN WRITING BY MSI. MUST BE RETURNED ON DEMAND.		DIMENSION UNITS UOS INCH [MM]		[MM] [MM]		SCALE NONE		SHEET 1 OF 8	
		DEFAULT TOLERANCES SHALL BE AS INDICATED BELOW UNLESS OTHERWISE SPECIFIED (UOS): 1 PLACE DECIMAL ±.015 2 PLACE DECIMAL ±.01 3 PLACE DECIMAL ±.005 FRACTIONAL ±1/64 ANGULAR ±1/2°							

NOTES (REFER TO FIGURE 1):

1. SET JUMPER HD2 (SEE FIGURE 3) TO THE RF POSITION.
2. CONFIGURE JUMPER HD1 (SEE FIGURE 3) TO THE DESIRED PULSE OUTPUT AS FOLLOWS:

PULSE OUTPUT TYPE	HD1 JUMPER CONFIGURATION
OPEN COLLECTOR	JP2
SQUARE WAVE TO V_{in}	JP1 AND JP2
TTL/CMOS	JP1, JP2 AND JP3
0-10 VDC SQUARE WAVE	JP1, JP2 AND JP4
3. INSTALL PICKUP (E.G. IN METER) AND PROVIDE POWER TO PA1001A. USE A DIGITAL VOLTMETER SET TO DC VOLTAGE AND ATTACH THE POSITIVE LEAD TO TERMINAL 6 AND THE COMMON LEAD TO TERMINAL 2. ADJUST THE CARRIER ADJUSTMENT (R2) (SEE FIGURE 3) TO A READING OF 3.00 VDC TO FINE-TUNE THE PICKUP FOR AIR GAP, WALL THICKNESS, ETC.
4. WITH POWER STILL SUPPLIED TO PA1001A DETERMINE IF A PULSE OUTPUT IS BEING GENERATED IN THE ABSENCE OF MOTION. ADJUST THE RF TRIGGER (R24) (SEE FIGURE 3) CW UNTIL THE FALSE PULSATION HAS STOPPED. IF PULSATION CONTINUES WHEN ADJUSTED FULLY CW, CHECK THAT ALL SHIELDS HAVE BEEN PROPERLY TERMINATED AND GROUNDED.
5. ALL CABLES ARE TO BE TWISTED-PAIR WITH FULLY BRAIDED SHIELD
6. ALL SHIELDS TO BE TERMINATED TO CHASSIS GROUND
7. ANALOG OUTPUT OPTION (FIGURE 3):
 - A) CURRENT OUTPUT - WIRE TWO CONDUCTOR SHIELDED CABLE TO TERMINAL 2 (COMMON) AND TERMINAL 3 (CURRENT OUTPUT)
 - B) VOLTAGE OUTPUT - WIRE TWO CONDUCTOR SHIELDED CABLE TO TERMINAL 2 (COMMON) AND TERMINAL 1 (VOLTAGE OUTPUT)

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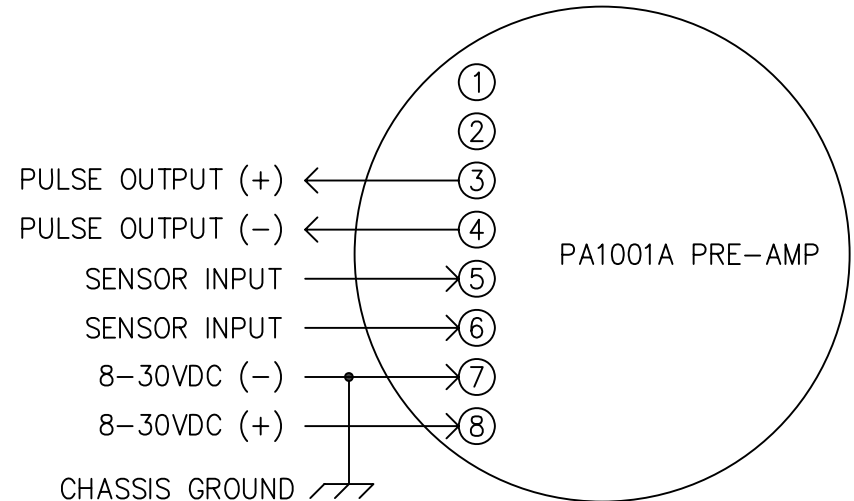


FIGURE 1
RF TYPE SENSOR

MATERIAL	APPROVALS			<h2 style="margin: 0;">MOTION SENSORS INC.</h2> <p style="margin: 0;">ELIZABETH CITY, NC 27909</p>						
NONE	DRAWN D.GUYDAN	DATE 10/28/05	<div style="font-size: 2em; font-weight: bold; margin: 0;">TITLE</div> <div style="font-size: 1.5em; margin: 0;">INSTALLATION DRAWING</div> <div style="font-size: 1.5em; margin: 0;">PA1001A PRE-AMPLIFIER</div> <div style="font-size: 1.5em; margin: 0;">(RF TYPE SENSOR)</div>							
FINISH	CHECK J.DEFEO	DATE 11/02/05								
NONE	ISSUED M.BERGMAN	DATE 11/02/05								
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DEFAULT TOLERANCES SHALL BE AS INDICATED BELOW UNLESS OTHERWISE SPECIFIED (UOS):			1 PLACE DECIMAL	±.015			SIZE	CAGE CODE	DWG NO	REV
			2 PLACE DECIMAL	±.01			A	OY2U4	ST-A-1555	A
			3 PLACE DECIMAL	±.005			SCALE		SHEET 2 OF 8	
			FRACTIONAL	±1/64			NONE			
			ANGULAR	±1/2°						

NOTES (REFER TO FIGURE 2):

1. SET JUMPER HD2 (SEE FIGURE 3) TO THE MAG POSITION.
2. CONFIGURE JUMPER HD1 (SEE FIGURE 3) TO THE DESIRED PULSE OUTPUT AS FOLLOWS:

PULSE OUTPUT TYPE	HD1 JUMPER CONFIGURATION
OPEN COLLECTOR	JP2
SQUARE WAVE TO V_{in}	JP1 AND JP2
TTL/CMOS	JP1, JP2 AND JP3
0-10 VDC SQUARE WAVE	JP1, JP2 AND JP4
3. INSTALL PICKUP (E.G. IN METER) AND PROVIDE POWER TO PA1001A. DETERMINE IF A PULSE OUTPUT IS BEING GENERATED IN THE ABSENCE OF MOTION. ADJUST THE MAG TRIGGER (R19) (SEE FIGURE 3) CW UNTIL THE FALSE PULSATION HAS STOPPED. IF PULSATION CONTINUES WHEN ADJUSTED FULLY CW, CHECK THAT ALL SHIELDS HAVE BEEN PROPERLY TERMINATED AND GROUNDED.
4. ALL CABLES ARE TO BE TWISTED-PAIR WITH FULLY BRAIDED SHIELD
5. ALL SHIELDS TO BE TERMINATED TO CHASSIS GROUND
6. ANALOG OUTPUT OPTION (FIGURE 3):
 - A) CURRENT OUTPUT - WIRE TWO CONDUCTOR SHIELDED CABLE TO TERMINAL 2 (COMMON) AND TERMINAL 3 (CURRENT OUTPUT)
 - B) VOLTAGE OUTPUT - WIRE TWO CONDUCTOR SHIELDED CABLE TO TERMINAL 2 (COMMON) AND TERMINAL 1 (VOLTAGE OUTPUT)

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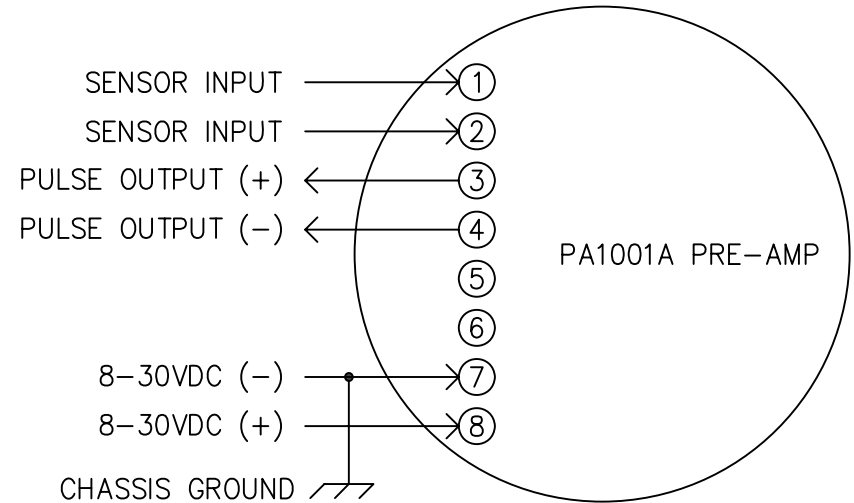


FIGURE 2
MAGNETIC TYPE SENSOR

MATERIAL	APPROVALS		MOTION SENSORS INC.		
NONE	DRAWN D.GUYDAN	DATE 10/28/05	<div style="font-size: 0.8em; font-weight: normal; margin-bottom: 5px;">ELIZABETH CITY, NC 27909</div> <div style="font-size: 1.2em; font-weight: bold; margin-bottom: 5px;">TITLE</div> <div style="font-size: 1.1em; font-weight: normal; margin-bottom: 5px;">INSTALLATION DRAWING</div> <div style="font-size: 1.1em; font-weight: normal; margin-bottom: 5px;">PA1001A PRE-AMPLIFIER</div> <div style="font-size: 1.1em; font-weight: normal; margin-bottom: 5px;">(MAGNETIC TYPE SENSOR)</div>		
FINISH	CHECK J.DEFEO	DATE 11/02/05			
NONE	ISSUED M.BERGMAN	DATE 11/02/05			
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		SIZE A	CAGE CODE OY2U4	DWG NO ST-A-1555	REV A
		SCALE NONE			SHEET 3 OF 8

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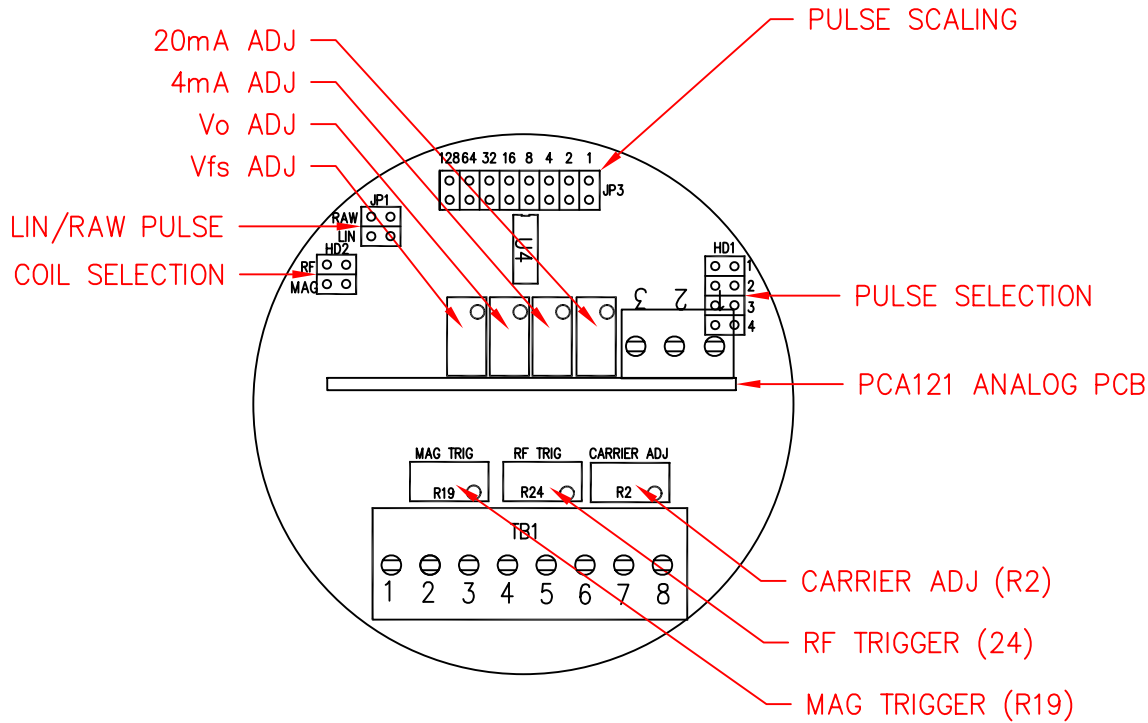


FIGURE 3

CONTROL AND ADJUSTMENT DETAILS

MATERIAL	APPROVALS				MOTION SENSORS INC. ELIZABETH CITY, NC 27909				
NONE	DRAWN D.GUYDAN	DATE 10/28/05			TITLE INSTALLATION DRAWING PA1001A PRE-AMPLIFIER				
FINISH	CHECK J.DEFEO	11/02/05							
NONE	ISSUED M.BERGMAN	11/02/05			SIZE A CAGE CODE OY2U4 DWG NO ST-A-1555 REV A				
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		DEFAULT TOLERANCES SHALL BE AS INDICATED BELOW UNLESS OTHERWISE SPECIFIED (UOS):						SCALE NONE	SHEET 4 OF 8
		1 PLACE DECIMAL ±.015							
		2 PLACE DECIMAL ±.01							
		3 PLACE DECIMAL ±.005							
		FRACTIONAL ±1/64							
		ANGULAR ±1/2°							

PRE-AMP ADJUSTMENTS:

1. CARRIER ADJUSTMENT – A TWENTY TURN CONTROL USED TO PRECISELY TUNE THE SPECIFIC SENSING DEPTH, WALL THICKNESS, MATERIAL TYPE, AIR GAP, ETC. OF THE RF SENSOR COIL.
2. RF TRIGGER – A TWENTY TURN CONTROL USED TO SET THE TRIGGER LEVEL OF THE RF COIL INPUT ABOVE THE AMBIENT NOISE LEVEL.
3. MAG TRIGGER – A TWENTY TURN CONTROL USED TO SET THE TRIGGER LEVEL OF THE MAGNETIC COIL INPUT ABOVE THE AMBIENT NOISE LEVEL.
4. COIL SELECTION – A TWO (2) POSITION JUMPER THAT IS USED TO SELECT THE DESIRED SENSOR COIL TO BE USED AS THE INPUT:

<u>INPUT COILTYPE</u>	<u>HD2 SETTING</u>
RF	RF
MAGNETIC	MAG
5. LIN\RAW PULSE – A TWO (2) POSITION JUMPER THAT IS USED TO SELECT THE DESIRED PULSE TRAIN:

<u>PULSE TYPE</u>	<u>JP1 SETTING</u>
RAW PULSE TRAIN	RAW (STD)
6. PULSE SELECTION – A FOUR (4) POSITION JUMPER THAT IS USED TO SELECT THE DESIRED TYPE OF PULSE OUTPUT:

<u>PULSE OUTPUT TYPE</u>	<u>HD1 JUMPER SETTINGS</u>
OPEN COLLECTOR	JP2
SQ WAVE TO VIN	JP1 AND JP2
TTL/CMOS	JP1, JP2 AND JP3
0-10 VDC SQ WAVE	JP1, JP2 AND JP4
7. PULSE SCALING ADJUSTMENTS (PULSE SCALER) – AN EIGHT (8) POSITION JUMPER HEADER LOCATED ON PA1001A CIRCUIT BOARD WHICH IS USED IN PROGRAMMING THE DESIRED PULSE OUTPUT SCALING OF /1, /2, /4, /8, /16, /32, /64, OR /128. UNIT SHIPPED WITH /1 AS STANDARD.

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CONTROL AND ADJUSTMENT DEFINITIONS

MATERIAL	APPROVALS		MOTION SENSORS INC. ELIZABETH CITY, NC 27909			
NONE	DRAWN D.GUYDAN	DATE 10/28/05	TITLE INSTALLATION DRAWING PA1001A PRE-AMPLIFIER			
FINISH	CHECK J.DEFEO	11/02/05				
NONE	ISSUED M.BERGMAN	11/02/05				
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	DEFAULT TOLERANCES SHALL BE AS INDICATED BELOW UNLESS OTHERWISE SPECIFIED (UOS):					
	1 PLACE DECIMAL ±.015					
	2 PLACE DECIMAL ±.01					
	3 PLACE DECIMAL ±.005					
	FRACTIONAL ±1/64					
	ANGULAR ±1/2°					
	SIZE A	CAGE CODE OY2U4	DWG NO ST-A-1555	REV A		
	SCALE NONE				SHEET 5 OF 8	

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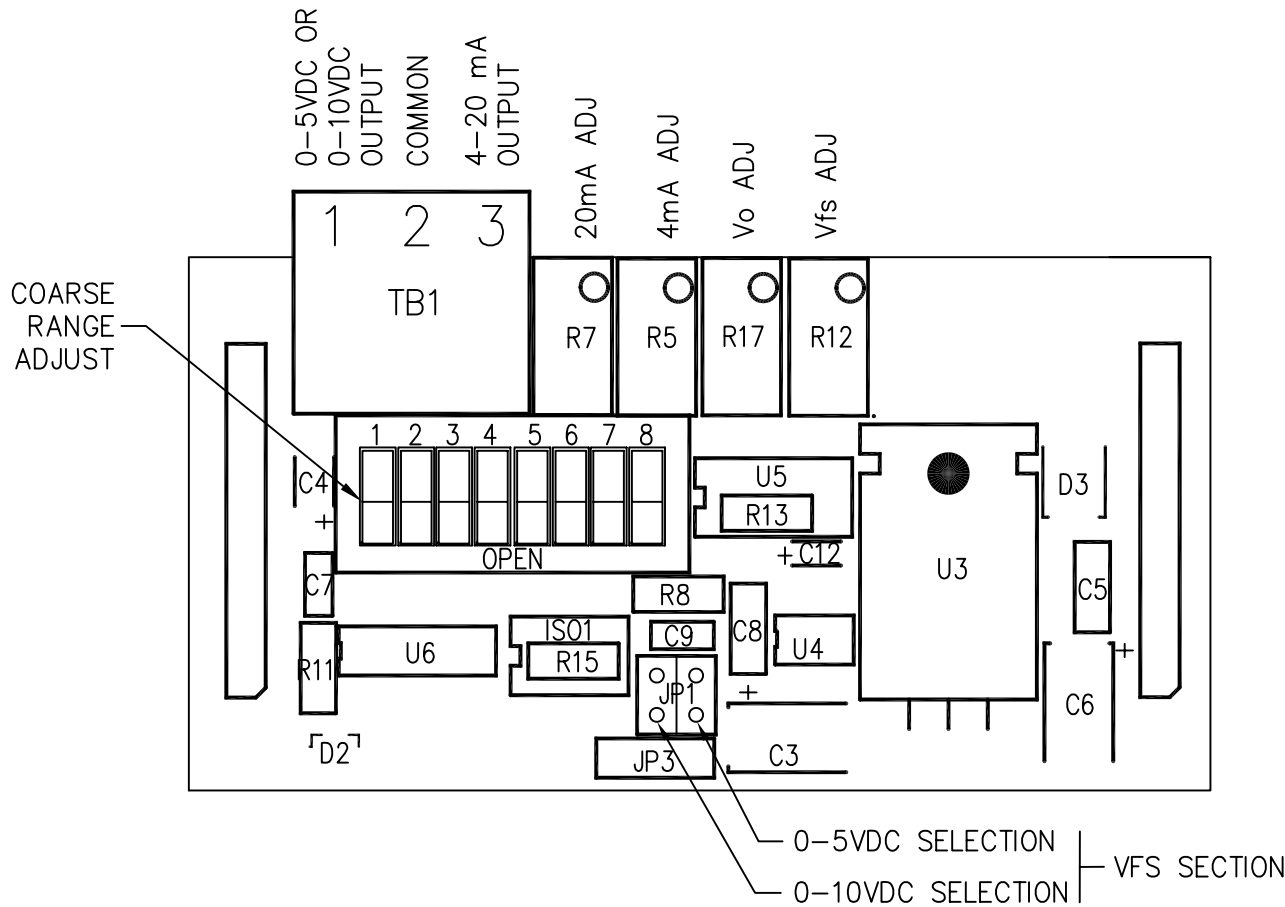


FIGURE 4

CONTROL AND ADJUSTMENT DETAILS

MATERIAL	APPROVALS		MOTION SENSORS INC. ELIZABETH CITY, NC 27909	
NONE	DRAWN D.GUYDAN	DATE 10/28/05	TITLE INSTALLATION DRAWING PA1001 PRE-AMPLIFIER	
FINISH	CHECK J.DEFEO	11/02/05		
NONE	ISSUED M.BERGMAN	11/02/05		
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		SCALE NONE	SHEET 6 OF 8	

ANALOG OUTPUT ADJUSTMENTS:

1. 20MA ADJ – A TWENTY TURN ADJUSTMENT WHICH IS USED TO SET CURRENT OUTPUT TO THE DESIRED SPAN CORRESPONDING TO THE EQUIVALENT FULL SCALE RANGE, I.E., 20 MA AT 100 RPM
2. 4MA ADJ – A TWENTY TURN ADJUSTMENT THAT IS USED TO SET THE CURRENT OUTPUT SIGNAL TO THE DESIRED ZERO VALUE, I.E., 4MA AT ZERO RPM.
3. VFS ADJ – A TWENTY TURN ADJUSTMENT THAT IS USED TO SET THE VOLTAGE OUTPUT TO THE DESIRED SPAN CORRESPONDING TO THE EQUIVALENT FULL SCALE RANGE, I.E., 5VDC OR 10VDC AT 100 RPM.
4. VO ADJ – A TWENTY TURN ADJUSTMENT THAT IS USED TO SET THE VOLTAGE OUTPUT SIGNAL TO THE DESIRED ZERO VALUE, I.E., 0VDC AT ZERO RPM.
5. COARSE RANGE ADJ – A DUAL IN LINE (DIP) SWITCH WHICH IS LOCATED ON THE PCA-121 BOARD, WHICH IS USED TO PERFORM A COARSE RANGE ADJUSTMENT FOR THE INPUT FREQUENCY RANGE.
6. VFS SELECTION – A TWO (2) POSITION JUMPER THAT IS USED TO SELECT THE DESIRED VOLTAGE OUTPUT RANGE OF EITHER 0-5VDC OR 0-10VDC.

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FREQ (kHz)	SW POS
.05-.1	1
.1-.2	2
.2-.4	3
.4-.8	4
.8-1.6	5
1.6-3.2	6
3.2-6.4	7
6.4-12.8	8

MAN	MODEL	DESCRIPTION
FLUKE	8060A	TRUE RMS MULTIMETER
TOPWARD	8112	DIGITAL FUNCTION GENERATOR
VIZ	WD-755	MULTI-FUNCTION GENERATOR
SPECTROL	8-T000	ADJUSTMENT TOOL

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	CHECK	J.DEFEO	DATE	11/02/05	
FINISH	ISSUED	M.BERGMAN	DATE	11/02/05	
NONE	DIMENSION UNITS UOS	INCH	MM	INCH	MM
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	SIZE	CAGE CODE	DWG NO	REV	
A	OY2U4	ST-A-1555	A		
SCALE	NONE		SHEET	7 OF 8	

CALIBRATION PROCEDURE:

1. FOR FIELD CALIBRATION/TROUBLESHOOTING THE PC121S REFER TO TABLE 1 FOR SUGGESTED EQUIPMENT.
2. CURRENT OUTPUT:
 - A) CONNECT A DIGITAL MILLIAMPMETER OR EQUIVALENT, ACROSS THE CURRENT OUTPUT TERMINALS.
 - B) ON THE PCA-121 SELECT THE "COARSE RANGE ADJ" THAT CORRESPONDS TO THE MAXIMUM INPUT FREQUENCY. REFER TO TABLE 2 FOR SELECTION OPTIONS.
 - C) ADJUST "4MA ADJ" CONTROL FOR DESIRED "ZERO" CURRENT, I.E. 4MA.
 - D) INJECT THE FULL-SCALE TEST FREQUENCY (DC SQUARE WAVE-5V) WHILE ADJUSTING "20MA ADJ" FOR CURRENT EQUAL TO SET (SPAN).
 - E) ITERATE ABOVE STEPS UNTIL NO CHANGE IS OBSERVED.
3. VOLTAGE OUTPUT:
 - A) NOTE: FOR PROPER ADJUSTMENT OF THE VOLTAGE OUTPUT, FIRST PERFORM CALIBRATION OF THE CURRENT OUTPUT.
 - B) CONNECT A DIGITAL VOLTMETER ACROSS THE VOLTAGE OUTPUT TERMINALS.
 - C) ON THE PCA-121 SELECT THE "COARSE RANGE ADJ" THAT CORRESPONDS TO THE MAXIMUM INPUT FREQUENCY. REFER TO TABLE 2 FOR SELECTION OPTIONS.
 - D) ADJUST "VO ADJ" FOR 0.00 VOLTS.
 - E) INJECT THE TEST FREQUENCY (SINE WAVE) WHILE ADJUSTING "VFS ADJ" FOR VOLTAGE EQUAL TO SET (SPAN).
 - F) ITERATE ABOVE STEPS UNTIL NO CHANGE IS OBSERVED.

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	<p>CONFIDENTIAL TOLERANCES SHALL BE AS INDICATED BELOW UNLESS OTHERWISE SPECIFIED (UOS):</p> <p>1 PLACE DECIMAL ±.015 2 PLACE DECIMAL ±.01 3 PLACE DECIMAL ±.005 FRACTIONAL ±1/64 ANGULAR ±1/2°</p>		SCALE	NONE	SHEET	8 OF 8