



1. WEIGHT- 1.55 LBS

REDRAWN ON CAD 5/19/00

DIYTRAN INSTRUMENTS, INC.		CHATSWORTH, CA.	
SCALE 1X	REV -	DATE -	ECN -
DATE 8/31/92	PART NO. 4112B		
DRAWN N.C.	CHECKED N.C.	MAT'L	
APPROVED	NEXT ASSEMBLY	USED ON	4112B, B1
TITLE OUTLINE INSTALLATION DRAWING, MODEL 4112B AND B1			DWG NO. 127-4112B
SHEET 1 OF 1			

SPECIFICATIONS, MODELS 4112B & 4112B1

LINE OPERATED CURRENT SOURCE POWER UNITS WITH GAINS x1, x10 & x100

SPECIFICATIONS		MODEL 4112B	MODEL 4112B1	UNITS
VOLTAGE GAIN, +/- 1% (Switch selectable)	[1] x1 x10 x100	1.00 10.00 100.0	1.00 10.00 100.0	
LINEARITY		+/- 1	+/-1	%F.S.
FREQUENCY RESPONSE (+/- 3db)	[2] x1 x10 x100	.16 to 200K .16 to 60K .16 to 6K	.16 to 200K .16 to 60K .16 to 6K	Hz Hz Hz
OUTPUT NOISE, BROADBAND	x1 x10 x100	0.2 0.5 3.0	0.2 0.5 3.0	mV, RMS mV, RMS mV, RMS
FULL SCALE OUTPUT VOLTAGE SWING, MIN.		+/- 5	+/- 5	VOLTS
MAXIMUM OUTPUT VOLTAGE SWING		+/- 10	+/- 10	VOLTS
SENSOR DRIVE CURRENT		2.0 FIXED	2 to 20, ADJUSTABLE	mA
SENSOR EXCITATION (COMPLIANCE) VOLTAGE		+20	+20	VOLTS, DC
BIAS MONITOR METER, FRONT PANEL [3]		10 SEGMENT LED BAR GRAPH, BOTH MODELS		
OVERLOAD INDICATOR, RED LED, FRONT PANEL		GLOWS WHEN OUTPUT VOLTAGE SWINGS TO WITHIN .5 VOLT OF RAIL		
SENSOR CONNECTOR, REAR PANEL [4]		BNC	BNC	JACK
OUTPUT CONNECTOR, REAR PANEL [4]		BNC	BNC	JACK
LINE VOLTAGE, STD. VERSION		115	115	VAC, 50-60Hz
LINE VOLTAGE, EXPORT 'E' VERSION	[5]	230	230	VAC
LINE FUSE, 3AG		1/4	1/4	AMP
LINE CORD		3-WIRE	3-WIRE	6 FEET
WEIGHT, INCL. OUTER CASE		880/32	800/32	GRAMS/OUNCES
SIZE, H x W x D [6]		5.5 x 1.7 x 8.0 (BOTH MODELS) 140 x 43 x 203 (BOTH MODELS)		INCHES mm

[1] Measured at 1000 Hz, 1.00 Volt RMS output amplitude.

[2] Measured with ten feet of input (Sensor) cable. Longer cables will degrade high frequency in accordance with the length and capacitance per foot.

[3] The LED array monitor meter reads the voltage bias of the sensor. Normal operation will illuminate one of the central bars. No sensor connected or an open sensor or cable will light the right hand bar. A shorted sensor or cable will light the left hand bar.

[4] Connectors are case ground isolated.

[5] Export versions are designated E4112B and E4112B1. They operate from 230 VAC, 50 to 60 Hz.

[6] Units may be mounted in a 19 inch wide X 5.25 inch high standard RTMA equipment rack by removing the instrument from its outer case and mounting in a Dytran Model 4200 rack adaptor. This rack adaptor holds up to 10 units.