

1. WEIGHT- 1.55 LBS

DYTRAN INSTRUMENTS, INC.		CHATSORTH, CA.			
SCALE	1X	REV	A	DATE	12-6-00
DATE	8/31/92	PART NO.	4112B		
DRAWN	N.C.	CHECKED	N.C.		
APPROVED	12-6-00		NEXT ASSEMBLY	USED ON	
TITLE				4112B	
OUTLINE INSTALLATION DRAWING, MODEL 4112B				DWG NO.	
				127-4112B	
				SHEET 1 OF 1	

Model Number 4112B	PERFORMANCE SPECIFICATIONS	DOC NO PS4112B
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Current Source Power Unit		REV A, ECN 11964, 05/12/15
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- POWERS IEPE SENSORS
- SUPPLIES 4mA OF CONSTANT CURRENT
- SELECTABLE GAIN FACTORS OF x1, x10, x100

PHYSICAL

Weight, Max
Size (Height x Width x Depth) [7]
Housing Material

ENGLISH		SI	
36	oz	1021	grams
5.4 x 1.8 x 7.0	in	137 x 46 x 178	mm
Aluminum Alloy		Aluminum Alloy	

PERFORMANCE

Voltage Gain, ± 1% [1]
(Switch selectable)

ENGLISH	SI
1	1
10	10
100	100

Frequency Response, ±3db [2]

Gain	ENGLISH	SI
x1	.16 to 200k Hz	.16 to 200k Hz
x10	.16 to 60k Hz	.16 to 60k Hz
x100	.16 to 6k Hz	.16 to 6k Hz

Output Noise, Broadband

Gain	ENGLISH	SI
x1	0.05 mV, RMS	0.05 mV, RMS
x10	0.3 mV, RMS	0.3 mV, RMS
x100	1.0 mV, RMS	1.0 mV, RMS

DC Voltage Offset

Gain	ENGLISH	SI
x1	<5 mVDC	<5 mVDC
x10	<100 mVDC	<100 mVDC
x100	<500 mVDC	<500 mVDC

Linearity [3]

ENGLISH	SI
±1 % F.S.	±1 % F.S.

Full Scale Output Voltage Swing, Min.

ENGLISH	SI
±5 Volts	±5 Volts

Maximum Output Voltage Swing

ENGLISH	SI
±10 Volts	±10 Volts

Sensor Drive Current, Fixed

ENGLISH	SI
4 mA	4 mA

Sensor Excitation (Compliance Voltage)

ENGLISH	SI
+20 VDC	+20 VDC

Discharge Time Constant

ENGLISH	SI
0.5 to 2.0 Sec	0.5 to 2.0 Sec

Line Voltage, STD Version, 50-60 Hz

ENGLISH	SI
115 VAC	115 VAC

Line Voltage, EXPORT "E" Version [6]

ENGLISH	SI
230 VAC	230 VAC

Line Fuse, 3AG

ENGLISH	SI
1/4 Amp	1/4 Amp

Polarity

ENGLISH	SI
Non-Inverting	Non-Inverting

Bias Monitor Meter, Front Panel [4]

ENGLISH	SI
10 Segment LED Bar Graph	10 Segment LED Bar Graph

Overload Indicator, Red LED, Front Panel

ENGLISH	SI
Glows when voltage swings to within .5 volt of rail	Glows when voltage swings to within .5 volt of rail

Sensor Connector, Rear Panel [5]

ENGLISH	SI
BNC Jack	BNC Jack

Output Connector, Rear Panel [5]

ENGLISH	SI
BNC Jack	BNC Jack

This family also includes:

Model	Sensitivity (mV/g)	Frequency Response (Hz)	Time Constant (Sec)	Operating Temp (°F)

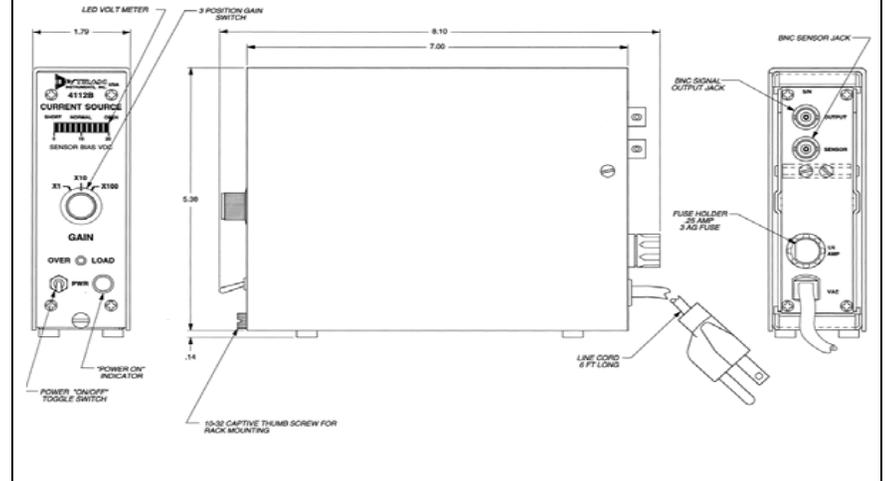
Refer to the performance specifications of the products in this family for detailed description

Supplied Accessories:

- 1) Accredited calibration certificate (ISO 17025)
- 2) AC to DC power supply

Notes:

- [1] Measured at 1000Hz, 1.00 Volt RMS output amplitude
- [2] Measured with ten feet of input (sensor) cable. Longer cables will degrade high frequency in accordance with length and capacitance per foot.
- [3] Measured using zero-based straight line method, % of F.S. or any lesser range.
- [4] 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.
- [5] Connectors are case ground isolated.
- [6] The export version is designated E4112B. It operates from 230 VAC, 50 to 60 Hz.
- [7] Unit may be mounted in a 19 inch wide X 5.25 inch high standard RTMA equipment rack by removing the outer case and mounting in a Dytran Model 4200 rack adaptor. This rack holds up to 10 units.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-4758A for more information.



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