

1. WEIGHT- 1.55 LBS



Presented by: Absolute Gauge Technologies  
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<b>DYTRAN</b> INSTRUMENTS, INC.		CHATSWORTH, CA.	
SCALE 1X	REV A	DATE 12-6-00	ECN N/A
DATE 8/31/92	PART NO. 4112B		
DRAWN N.C.	CHECKED N.C.	MAT'L	
APPROVED [Signature]	12-6-00	NEXT ASSEMBLY	USED ON 4112B
TITLE <b>OUTLINE INSTALLATION DRAWING, MODEL 4112B</b>			DWG NO. <b>127-4112B</b>
SHEET 1 OF 1			

<b>Model Number</b> 4112B	<b>PERFORMANCE SPECIFICATIONS</b>	<b>DOC NO</b> PS4112B
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<b>Current Source Power Unit</b>		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

**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.

**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)

Gain	ENGLISH	SI
x1	1	1
x10	10	10
x100	100	100

Frequency Response, ±3db [2]

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

Linearity [3]

Gain	ENGLISH	Unit	SI	Unit
x1	±1	% F.S.	±1	% F.S.

Full Scale Output Voltage Swing, Min.

Gain	ENGLISH	Unit	SI	Unit
x1	±5	Volts	±5	Volts

Maximum Output Voltage Swing

Gain	ENGLISH	Unit	SI	Unit
x1	±10	Volts	±10	Volts

Sensor Drive Current, Fixed

Gain	ENGLISH	Unit	SI	Unit
x1	4	mA	4	mA

Sensor Excitation (Compliance Voltage)

Gain	ENGLISH	Unit	SI	Unit
x1	+20	VDC	+20	VDC

Discharge Time Constant

Gain	ENGLISH	Unit	SI	Unit
x1	0.5 to 2.0	Sec	0.5 to 2.0	Sec

Line Voltage, STD Version, 50-60 Hz

Gain	ENGLISH	Unit	SI	Unit
x1	115	VAC	115	VAC

Line Voltage, EXPORT "E" Version [6]

Gain	ENGLISH	Unit	SI	Unit
x1	230	VAC	230	VAC

Line Fuse, 3AG

Gain	ENGLISH	Unit	SI	Unit
x1	1/4	Amp	1/4	Amp

Polarity

Gain	ENGLISH	SI
x1	Non-Inverting	Non-Inverting

Bias Monitor Meter, Front Panel [4]

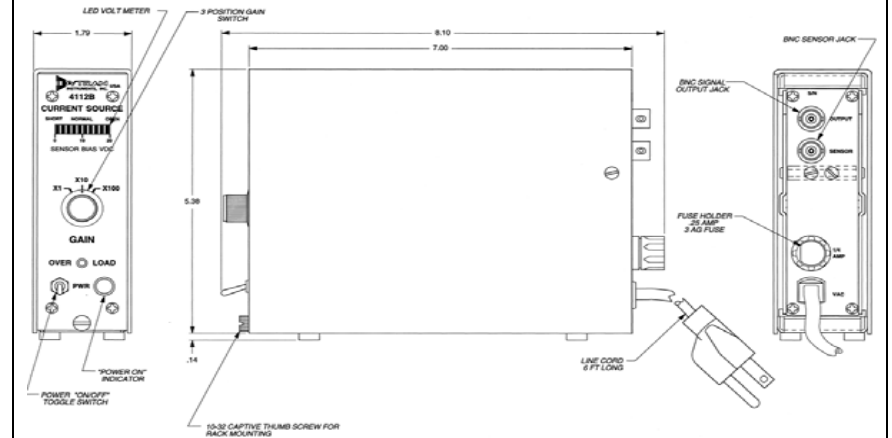
Gain	ENGLISH	SI
x1	10 Segment LED Bar Graph Glows when voltage swings to within .5 volt of rail	10 Segment LED Bar Graph Glows when voltage swings to within .5 volt of rail

Overload Indicator, Red LED, Front Panel

Sensor Connector, Rear Panel [5]

Output Connector, Rear Panel [5]

Gain	ENGLISH	SI
x1	BNC Jack	BNC Jack
x1	BNC Jack	BNC Jack



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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