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5124A1 & 5126A1 PIEZOTRON® COUPLER, 12 & 6 - CHANNELS

The Model 5124A1 Twelve-Channel Coupler provides power and signal processing to twelve low impedance voltage mode sensors such as Piezotron or In-line Impedance Converters and readout equipment. The coupler operates on AC line power to furnish constant current DC to the impedance converters contained within the sensor.

Each channel includes an adjustable gain amplifier which can be varied over three internally selectable ranges; optional plug-in filters; an adjustable current regulator and de-coupling network that removes the DC bias while passing the dynamic signal to the output. Additionally, any channel may be tested at any time by depressing the appropriate channel test pushbutton. A two-color

Continued

- Provides constant current excitation for Piezotron® and voltage mode piezoelectric sensors
- LED indicates circuit integrity
- Standard 19” rack mountable
- Low cost per channel operation



Technical data	Unit	5124A1/5126A1
Sensor Input:		
Current to Impedance converter, adjustable	mA	2 ... 18
Voltage full scale	V_{pk}	10
Noise @ unity gain	mV_{rms}	2
Connector	type	BNC neg.
Impedance	MΩ	>1
Transfer Characteristics		
Gain		0.1 ... 100
Frequency Response	Hz	0.07 ... 300 000
Time Constant	s	8.5
Output:		
Impedance	Ω	100
Voltage full scale output	V_{p-p}	20
Current	mA	5
Connector	type	BNC neg.
Power:		
Input (50 ... 60 Hz)	VAC	105 ... 125
	VAC	210 ... 250
Power Consumption max.	watts	15
Connector	type	3 wire detachable w/ ground
Environment:		
Temperature Range Operating	°F	32 ... 158
	°C	0 ... 70
Range Storage	°F	−4 ... 185
	°C	−20 ... 85
Humidity	%	10 ... 90
Physical:		
Weight	lb (kg)	6 (2,71)
Size	in	19 x 1.75 x 8
	mm	483 x 45 x 204

1 ***g*** = 9.80665 m/s², 1 inch = 25.4 mm, 1 gram = 0.03527 oz

000-440e-11.01 (DBK12.5124e-11.01)

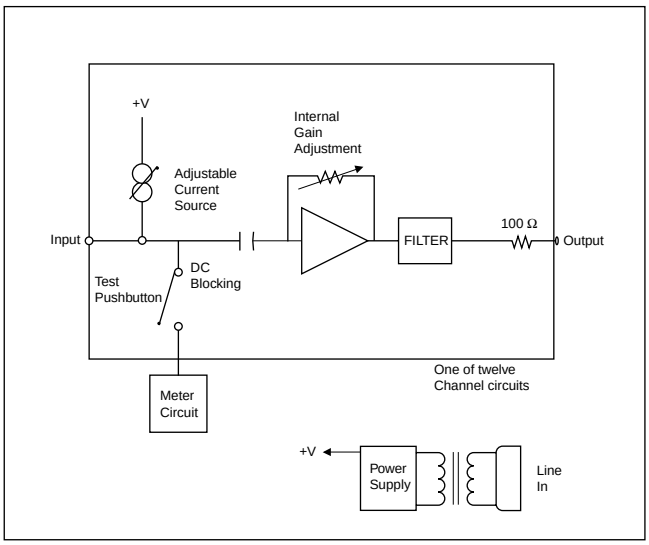
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indicator displays green for a normal input bias of 3 to 21 volts. Below 3 volts the line is considered shorted, above 21 volts the channel is considered open. In these instances, the indicator will display Red.

The Model 5126A1 is a six channel version of the 5124A1 and contains identical features and performance characteristics as the twelve channel model.

Either coupler can be rack-mounted, occupying approximately 1 3/4 inches in height in a standard 19-rack and with 1 1/4 inch mounting screw spacing.



Ordering Information

1 - 5124A1	12-Channel coupler or
5126A1	6-Channel coupler
2 - 5316A(X)	low pass plug-in filter, one required per channel or
5318A(X)	low pass plug-in filter, one required per channel

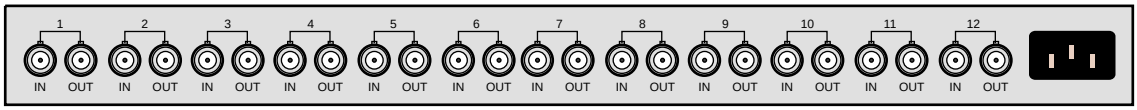
Supplied Accessory

1511	output cable, BNC pos. to BNC pos., 1 meter long
1508	Power Cord, 110 VAC

Optional Accessories

1511...	output cable, BNC pos. to BNC pos., specify length in meters
1721	input coupling adapter, 10-32 neg. to BNC pos.

Rear View



Plug-In Filter Options

Model	Frequency
5316A(x)kHz	1, 1.5, 2.2, 3.3, 4.7, 6.8, 10, 15, 20, 22, 33, 47, 60, 68, 100, 150, 180, 220, 330,
5318A(x)Hz	10, 15, 22, 33, 47, 68, 100, 150, 220, 330, 470, 680

x = Cut-off Frequency (–3dB)

000-440e-11.01 (DBK12.5124e-11.01)

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