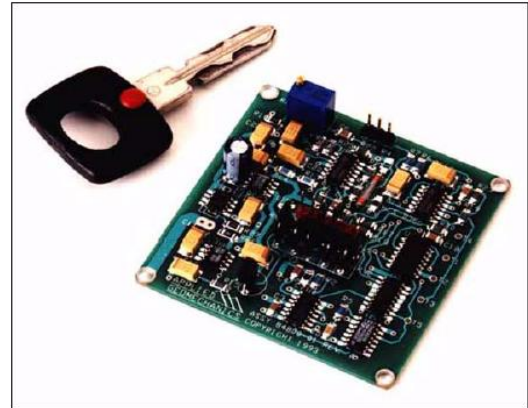




84800 Tarjeta Acondicionadora de Señal de un Canal

El modelo 84800 es un circuito electrónico compacto que proporciona el acondicionamiento de excitación y de señal para cualquier sensor electrolítico de inclinación y un sensor de temperatura LM-35. Se diseña para generar funcionamiento máximo de sensores miniatura de las series 755 , 756, 757 y 758. Transmite señal en longitudes de cable de 300m. Las distancias entre la tarjeta y el sensor de inclinación pueden ser hasta 100m. Cuatro perforaciones de montaje permiten el empaquetado fácil tanto para OEM así como al usuario final. Un rango amplio de voltaje de entrada, protección transitoria y una protección de polaridad inversa son ventajas agregadas al usar este circuito.



INPUT	One electrolytic tilt sensor, one LM-35 temperature sensor (included)												
TILT OUTPUT	Single-ended <i>and</i> differential analog outputs, proportional to tilt: Output voltage range: ± 5 VDC (single-ended), ± 10 VDC (differential)												
SCALE FACTORS†	<table border="1"> <thead> <tr> <th>When used with:</th> <th>Scale Factor</th> <th>Range</th> </tr> </thead> <tbody> <tr> <td>755-Series Sensors</td> <td>1.0 μradian/mV*</td> <td>± 5000 μradians</td> </tr> <tr> <td>756-Series Sensors:</td> <td>1.0 degree/V</td> <td>± 5 degrees</td> </tr> <tr> <td>757- and 758-Series Sensors:</td> <td>10 degrees/V</td> <td>± 50 degrees</td> </tr> </tbody> </table>	When used with:	Scale Factor	Range	755-Series Sensors	1.0 μ radian/mV*	± 5000 μ radians	756-Series Sensors:	1.0 degree/V	± 5 degrees	757- and 758-Series Sensors:	10 degrees/V	± 50 degrees
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756-Series Sensors:	1.0 degree/V	± 5 degrees											
757- and 758-Series Sensors:	10 degrees/V	± 50 degrees											
OUTPUT FILTER	2-pole Butterworth low-pass filter, roll-off = 12 dB/octave; time constant 0.2 second (other values on request)												
TEMPERATURE OUTPUT	0.1°C/mV (single-ended), -40° to +100°C, $\pm 0.75^\circ\text{C}$ accuracy, 0°C = 0 mV												
OUTPUT IMPEDANCE	270 ohms, short circuit and surge protected												
POWER REQUIREMENTS	8 to 18 VDC@ 8 mA typical, 250 mV peak-to-peak ripple max.; reverse polarity protected												
CONNECTIONS	Gold-plated 100 mil header pins for sensors, power & signal; 3 ft (0.8 m) power & signal cable provided, greater lengths available												
ENVIRONMENTAL	-25° to +70°C operational, -30° to +100°C storage; 0 to 90% humidity, noncondensing												
MATERIALS	Fiberglass printed circuit board with surface mount components												
SIZE & WEIGHT	2.47 x 2.47 x 0.63 inches (63 x 63 x 16 mm), 0.75 oz (21 g); four mounting holes in corners												

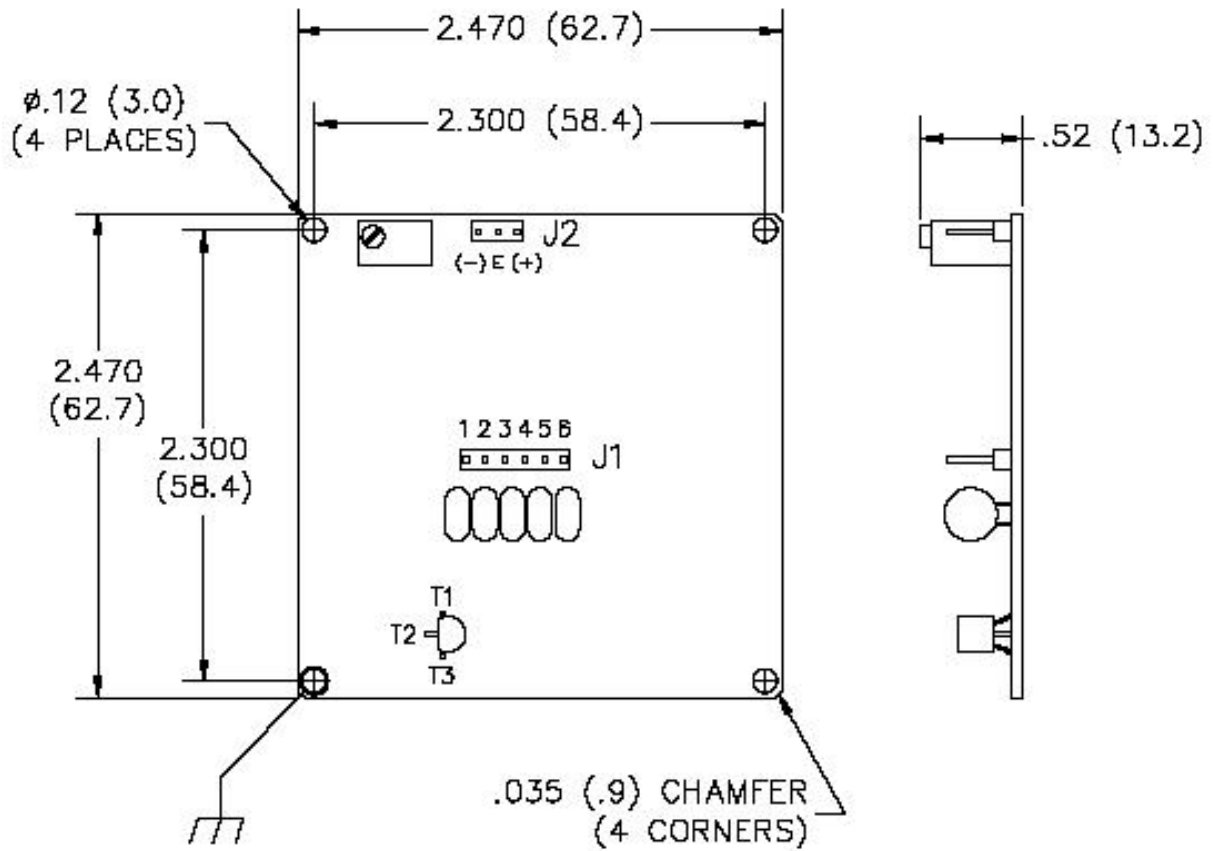
* 1 degree = 3600 arc seconds = 17453 μ radians (microradians)

† Single-ended outputs; divide by 2 for differential scale factors.

Ordering Information

Model 84800	Single-Channel Signal Conditioning Card
P/N 70308	Sensor hook-up cable, specify length
P/N 70304	Additional power & signal cable, specify length

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COMPONENT SIDE

Dimensions in inches (mm)

<u>J1 Pin #</u>	<u>Function</u>
1	8-18 VDC
2	Signal Ground
3	Power Ground
4	+ Tilt
5	- Tilt
6	Temperature