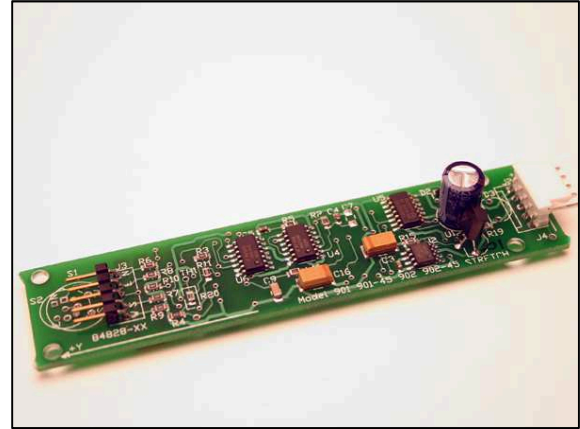


# Model 84828

## Slimline Signal Conditioning Card

The model 84828 Slimline Signal Conditioning Card is compact, analog signal conditioner for use with all Jewell Instruments miniature tilt sensors. Each 84828 card operates one single axis tilt sensor. Its slim, compact design makes the 84828 ideal for OEM applications where space is limited. Tilt output is measured as a  $\pm 4$  VDC signal (calibrated range is  $\pm 2.5$  VDC). Units are also available with 0-5VDC output. Jewell provides factory calibration for all 84828 signal conditioning electronics when ordered with our 84053 and 84064 Ceramic, or Model 755- and 756- miniature tilt sensors. Use the 84828 signal conditioner in custom instrument packages, robotics, ROV pitch/roll control, and more.



Input Channels	1 Tilt Channel (X or Y)		
Output Signal	$\pm 4$ VDC (standard calibration over $\pm 2.5$ VDC)		
Gain Settings	Fixed		
Standard Calibration	<u>Sensor Type</u>	<u>Scale Factor</u>	<u>Range</u>
	755-Series	0.2°/V	$\pm 0.5^\circ$
	756-Series	2.0°/V	$\pm 5.0^\circ$
	84053	1.2°/V	$\pm 3.0^\circ$
	84064-02	20°/V	$\pm 50.0^\circ$
Output Filter	0.15 sec <sup>1</sup>		
Temperature Output	0.1°C/mV, 0°C = 0 mV (standard version), 0°C = 2.5 V (0-5V output version)		
Power	+8 to +24 VDC (standard version); +10.5 to +26.5 VDC (0-5V version); 7 mA, 250 mV ripple max., reverse polarity protected		
Environmental	-25 to +70°C operation and storage, 0-80% humidity non-condensing		
Dimensions	(see drawing), 0.5 oz (15 g)		
Materials	Fiberglass PCB, surface mount components		

*Specifications subject to change without notice on account of continued product research and development*

### Ordering Code:

Model no.	Part no.	Description
84828	84828	Slimline Signal Conditioning Card, Analog, Single Channel, Fixed Gain and Filter, $\pm 4$ V (Single ended, nominal)
70382-03	70382-03	Miniature Tilt Sensor Hookup Cable, 9-conductor (3 twisted shielded triples), specify required length on order

# Model 84828

## Slimline Signal Conditioning Card



**Dimensions:**

