

# KARMA STRAIN GAGES

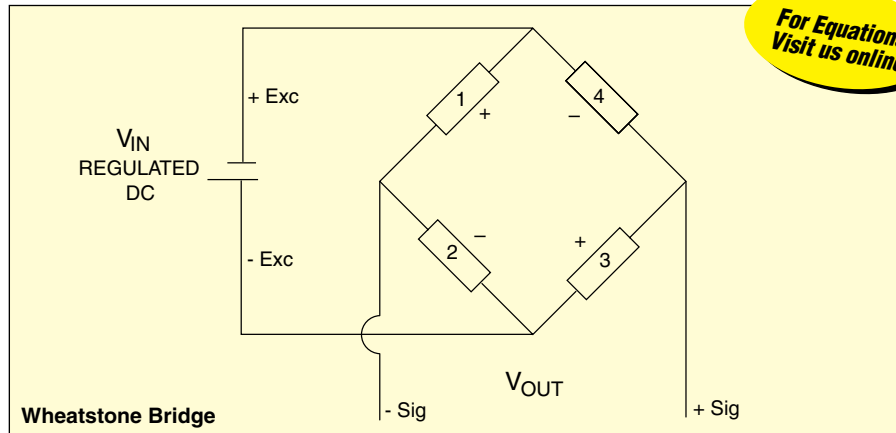
## LINEAR DIAPHRAGM GAGES

- ✓ **K-Series, Transducer Quality**
- ✓ **Stock Delivery with Plated Solder Pads**
- ✓ **Custom Gages Available**

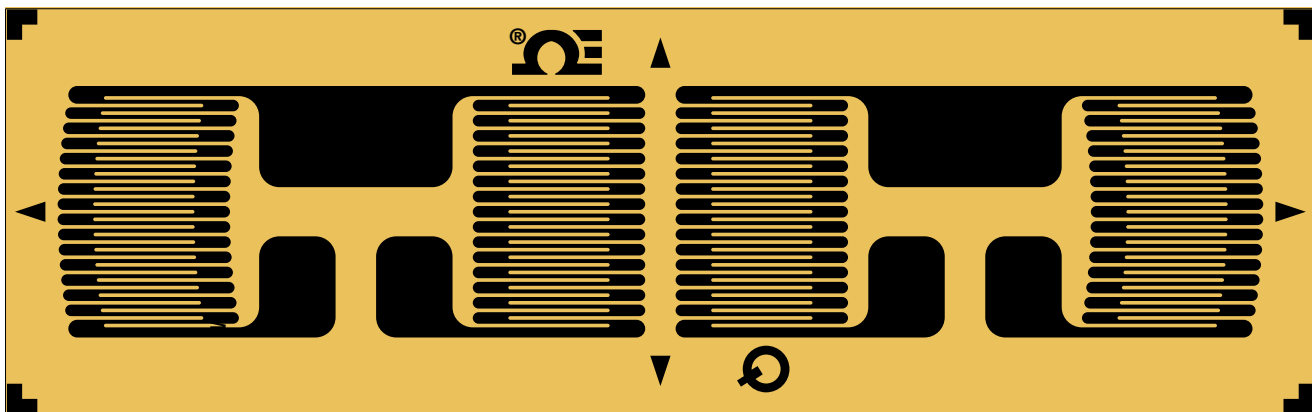
TRODEKS® offers K-Series, linear diaphragm pattern strain gages for use in pressure transducer designs. This linear diaphragm pattern has 4 strain gages mounted onto a single carrier. The strain gages in the center will go into tension, and the outer 2 will go into compression. In the pressure transducer design, a diaphragm is clamped around the outer edge, and subjected to a uniform pressure. Near the center of the diaphragm the radial and tangential strains will be positive, and will be nearly equal. The radial strain decreases and becomes negative as you move away from the center toward the outer edge. Midway between the center and the outer edge the strain is at its lowest and the leads/

solder pads are located in this low stress area. In this pattern, there are 2 half-bridges. Each half-bridge has a common lead/solder pad. The pattern has been enlarged to show the detail. The strain gages and terminal pads have been numbered and labeled. The corners of the Wheatstone bridge have

been left open for the addition of zero temperature compensation resistors, and zero balance compensation resistors if required. SGK-LD1B-K350Q-\*\*\*\* can be used for a 0.500" diameter diaphragm.




Gage 2                      -Exc                      Gage 3                      Gage 1                      +Exc                      Gage 4



-Sig                      +Sig                      -Sig                      +Sig

### To Order

GAGE PATTERN Shown actual size Leads not shown	MODEL NO. Pkg of 5	NOM. RESIS- TANCE (Ω)	DIMENSIONS mm (inch) <sup>†</sup>				MAX V* (Vrms)	TERMINATION	TEMP COMP
			GRID		CARRIER				
			A	B	C	D			
<div>12.9 mm</div> <div></div>	SGK-LD1B-K350Q-PC11-E	350	1.0      2.49      12.9      4.0 (0.039) (0.098) (0.51) (0.16)				5	Solder Pads	ST
	SGK-LD1B-K350Q-PC23-E	350	Linear full bridge diaphragm gage, 350 Ω				7.5	Solder Pads	AL

### DISCOUNT SCHEDULE

1 to 10 pkgs. ....	Net
11 to 24 pkgs. ....	5%
25 to 49 pkgs. ....	10%
50 and up and OEM . .	Consult Factory

† For dimensions key, visit us online.

\* Maximum permitted bridge energizing voltage (Vrms). \*\*\*\* PC11 or PC23.

Note: For strain gage accessories visit us online.

Ordering Example: SGK-LD1B-K350Q-PC11-E, package of 5, Karma K-Series linear diaphragm full bridge for 1/2" diameter diaphragm, nominal 350 Ω resistance.

**NOTE**  
ST = Steel  
AL = Aluminum