



# PRECISION STRAIN GAGE

## RECTANGULAR CORNER ROSETTES AND RESIDUAL STRESS PATTERN

**MOST POPULAR MODELS HIGHLIGHTED!**

**Custom-Designed Strain Gages Available!**  
No Minimum Quantities. Consult Engineering.

See Page 66

### To Order (Specify Model Number)

MODEL NO.	PRICE PER PKG OF 5	NOM. RESISTANCE (Ω)	DIMENSIONS mm (in) <sup>†</sup>				MAX PERMITTED BRIDGE ENERGIZING VOLTAGE (Vrms)	TERMINATION	TEMP COMP	TERM PAD		
			GRID		CARRIER							
			A	B	C	D						
<b>RECTANGULAR CORNER ROSETTE</b>												
<p>Shown actual size, 27 mm, leads not shown</p>	SGD-13/120-RY91	\$135	120	11.0 (0.433)	5.0 (0.197)	27.0 (1.06)	27.0 (1.06)	15	Ribbon Leads	ST	BTP-6	
	SGD-13/120-RY93	135	120						20	Ribbon Leads		AL
	SGD-13/120-RY21	119	120						15	Solder Pads		ST
	SGD-13/120-RY23	119	120						20	Solder Pads		AL

Open-face gages available. Consult Pressure Sales and Engineering.

Note: For strain gage accessories see pages 59 to 61.

Ordering Example: SGD-13/120-RY91, 120 Ω nominal-resistance strain gage, \$135.

**NOTE**  
ST = Steel  
AL = Aluminum

See Page 66

### To Order (Specify Model Number)

MODEL NO.	PRICE PER PKG OF 5	NOM. RESISTANCE (Ω)	DIMENSIONS mm (in) <sup>†</sup>				MAX PERMITTED BRIDGE ENERGIZING VOLTAGE (Vrms)	TERMINATION	TEMP COMP	TERM PAD		
			GRID		CARRIER							
			A	B	C	D						
<b>RESIDUAL STRESS PATTERN ROSETTE</b>												
<p>Shown actual size, 10.5 mm Leads not shown</p>	SGD-1.5/120-SR11	\$135	120	1.20 (0.047)	1.33 (0.052)	10.50 (0.413)	10.50 (0.413)	2.5	Ribbon Leads	ST	BTP-1	
	SGD-1.5/120-SR13	135	120						3.5	Ribbon Leads		AL
	SGD-1.5/120-SR41	119	120						2.5	Solder Pads		ST
	SGD-1.5/120-SR43	119	120						3.5	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

Open-face gages available. Consult Pressure Sales and Engineering.

Note: For strain gage accessories see pages 59 to 61.

Ordering Example: SGD-1.5/120-SR11, 120 Ω nominal-resistance strain gage, \$135.

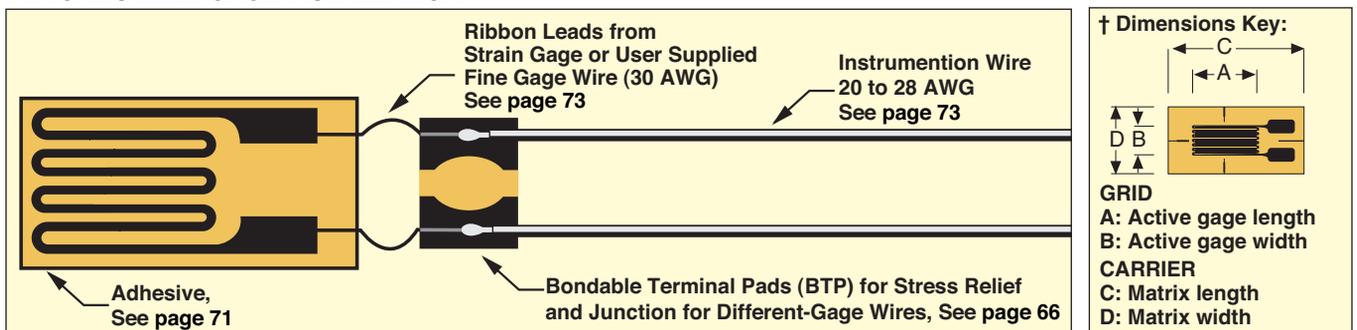
See Equations on Page 10

OMEGADYNE® offers stress relief or residual stress pattern strain gages. These strain gages are mounted onto a

test piece that is already stressed. Instrumentation is attached to all 3 elements in the rosette. The stress magnitude is determined by unloading the test specimen by boring-out or

drilling a small hole in the center of the strain gage. By removing material you are releasing the stress, and measuring the relaxed residual stress in the vicinity of the hole. Hole diameter and depth is 1.85 mm (0.07")

### TYPICAL STRAIN GAGE INSTALLATION



# omega.co.uk<sup>®</sup>

Your One-Stop Source for Process Measurement and Control!

Freephone 0800 488 488 | International +44(0) 161 777 6622 | Fax +44(0) 161 777 6622 | Sales@omega.co.uk

[www.omega.co.uk](http://www.omega.co.uk)



#### UNITED STATES

[www.omega.com](http://www.omega.com)

1-800-TC-OMEGA  
Stamford, CT.

#### UNITED KINGDOM

[www.omega.co.uk](http://www.omega.co.uk)

Manchester, England  
0800-488-488  
+44-(0)161-777-6611

#### CANADA

[www.omega.ca](http://www.omega.ca)

Laval(Quebec)  
1-800-TC-OMEGA

#### FRANCE

[www.omega.fr](http://www.omega.fr)

0800-466-342

#### GERMANY

[www.omega.de](http://www.omega.de)

Deckenfronn, Germany  
0800-8266342

#### BENELUX

[www.omega.nl](http://www.omega.nl)

0800-099-33-44



## More than 100,000 Products Available!

### • Temperature

Calibrators, Connectors, General Test and Measurement Instruments, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders, Relative Humidity Measurement Instruments, PT100 Probes, PT100 Elements, Temperature & Process Meters, Timers and Counters, Temperature and Process Controllers and Power Switching Devices, Thermistor Elements, Probes and Assemblies, Thermocouples, Thermowells and Head and Well Assemblies, Transmitters, Thermocouple Wire, RTD Probes

### • Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

### • pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

### • Data Acquisition

Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485, Ethernet and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

### • Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Pressure Transmitters, Strain Gauges, Torque Transducers, Valves

### • Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters