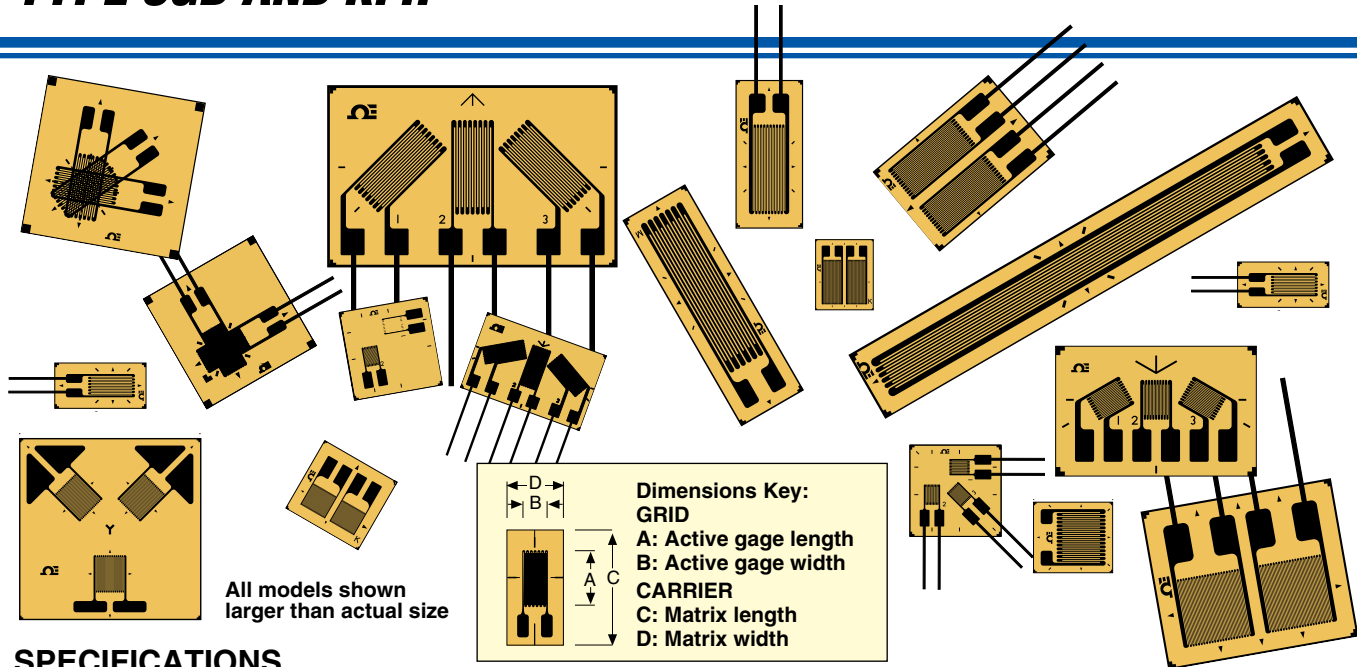


# PRECISION STRAIN GAGE

## PRECISION SPECIFICATIONS CHART

### TYPE SGD AND KFH



## SPECIFICATIONS

	SGD SERIES	KFH SERIES—PRE-WIRED
Foil Measuring Grid	Constantan foil 5 microns thick	Constantan foil 3.8 or 5 microns thick
Carrier	Polyimide	Polyimide
Substrate Thickness	20 microns	45 ± 10 microns
Cover Thickness	25 microns	45 ± 10 microns
Connection Dimensions: mm (inch)	Solder pads or ribbon leads, tinned copper flat wire 30 L x 0.1 D x 0.3 mm W (1.2 x 0.004 x 0.012"); other wire types available upon request	Pre-wired, 2 or 3 leads connected to 28 AWG PTFE wire, 50 mm long ribbon cable (PVC insulated) through solder sleeves
Nominal Resistance	Stated in "To Order" box	120 or 350
Resistance Tolerance Per Package	±0.15% to ±0.5% depending on gage spec	± 0.35 or ± 1
Gage Factor (Actual Value Printed on Each Package)	2.0 ±5%	Approximately 2 (stated on package)
Gage Factor Tolerance Per Package	1.00%	± 1.00% or ± 1.5%
<b>THERMAL PROPERTIES</b>		
Reference Temperature	23°C (73°F)	23°C (73°F)
<b>SERVICE TEMPERATURE</b>		
Static Measurements	-75 to 200°C (-100 to 392°F)	-10 to 155°C (-14 to 320°F)
Dynamic Measurements	-75 to 200°C (-100 to 392°F)	-10 to 155°C (-14 to 320°F)
<b>TEMPERATURE CHARACTERISTICS</b>		
Steel (and Certain Stainless Steels)	11 ppm/°C (6.1 ppm/°F)	10.8 ppm/°C (6 ppm/°F)
Aluminum	23 ppm/°C (12.8 ppm/°F)	—
Uncompensated	±20 ppm/°C (11.1 ppm/°F)	—
Temperature Compensated Range	-5 to 120°C (5 to 248°F)	-10 to 120°C (-14 to 248°F)
Tolerance of Temp Compensation	2 ppm/°C (1.0 ppm/°F)	—
<b>MECHANICAL PROPERTIES</b>		
Maximum Strain	3% or 30,000 microstrain	2% or 20,000 microstrain
Hysteresis	Negligible	Negligible
Fatigue (at ±1500 microstrain)	>10,000,000 cycles	>10,000,000 cycles
Smallest Bending Radius	3 mm (1/8")	—
Transverse Sensitivity	—	± 0.2%