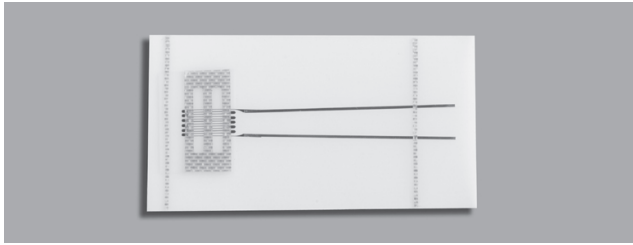




Special Purpose Strain Gages - High-Temperature Patterns



FEATURES

- Measurement range to 2100°F (1150°C)
- Free-filament Kanthal alloy grids for bonding with ceramic adhesives.
- Linear and Tee rosette patterns



ZC-Series strain gages are etched Kanthal (Fe-Cr-Al alloy) foil grids in free-filament form for high-temperature applications. They are bonded with either ceramic adhesives, or by the use of flame spray or Rokide® processes.



used for minimizing of thermally induced apparent strain (thermal output). Several patterns are available with built-in compensating grids.

ZC-Series strain gages are supplied with a removable high-temperature carrier for gage handling during installation. All patterns have 1in (25.4mm) Nichrome ribbon leads spot welded to the gage tabs for leadwire attachment.

ZC-Series strain gages cannot be self-temperature compensated, and a dummy compensating gage must be


GAGE PATTERN	GAGE DESIGNATION	RES. IN OHMS	OPTIONS AVAILABLE
Actual size shown. Enlarged when necessary for definition.			
inch millimeter			



G1262				Linear pattern.		
						
2X		1X				
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH			
0.062	0.150	0.076	0.076			
1.57	3.81	1.93	1.93			
MATRIX SIZE	N/A			ZC-NC-G1262-120	120	



G1263				Linear pattern.		
						
2X		1X				
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH			
0.100	0.248	0.179	0.179			
2.54	6.30	4.55	4.55			
MATRIX SIZE	N/A			ZC-NC-G1263-120	120	

Special Purpose Strain Gages - High Temperature Patterns

GAGE PATTERN	GAGE DESIGNATION	RES. IN OHMS	OPTIONS AVAILABLE
Actual size shown. Enlarged when necessary for definition. <div style="float: right; border: 1px solid black; padding: 2px;"> inch millimeter </div>			

G1264				Linear pattern with inactive temperature-compensating grid.		
 1X						
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH			
0.100	0.310	0.179	0.430			
2.54	7.87	4.55	10.92			
MATRIX SIZE	N/A			ZC-NC-G1264-120	120	

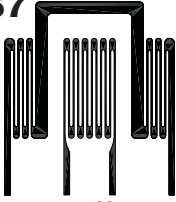

G1265				Linear pattern.		
 2X  1X						
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH			
0.138	0.300	0.138	0.138			
3.51	7.62	3.51	3.51			
MATRIX SIZE	N/A			ZC-NC-G1265-120	120	

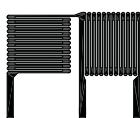

G1266 G1272				Linear pattern, Higher resistance linear pattern.		
 2X  1X						
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH			
0.200	0.380	0.135	0.135			
5.08	9.65	3.43	3.43			
MATRIX SIZE	N/A			ZC-NC-G1266-120 ZC-NC-G1272-350	120 350	





Special Purpose Strain Gages - High Temperature Patterns

GAGE PATTERN		GAGE DESIGNATION	RES. IN OHMS	OPTIONS AVAILABLE
Actual size shown. Enlarged when necessary for definition.				
<div style="border: 1px solid black; padding: 2px; display: inline-block;"> inch millimeter </div>				

G1267				Linear pattern with inactive temperature-compensating grid.		
 2X		 1X				
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH			
0.200	0.503	0.134	0.442			
5.08	12.78	3.40	11.23			
MATRIX SIZE	N/A			ZC-NC-G1267-120	120	

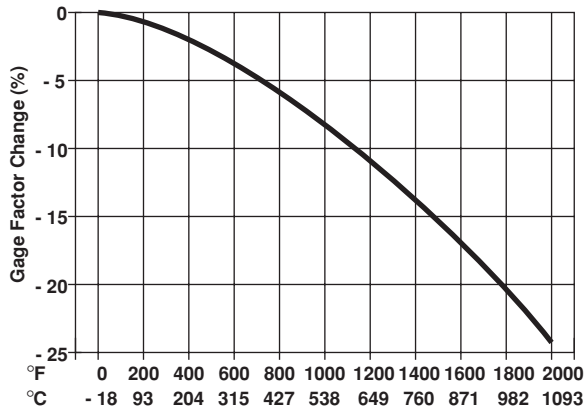
G1269 G1275				Tee-rosette pattern in half-bridge configuration.		
 2X		 1X				
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH			
0.125	0.278	0.150	0.346			
3.18	7.06	3.81	8.79			
MATRIX SIZE	N/A			ZC-NC-G1269-200 ZC-NC-G1275-350	200 350	

G1270				Higher resistance linear pattern.		
 2X		 1X				
GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH			
0.100	0.250	0.280	0.300			
2.54	6.35	7.11	7.62			
MATRIX SIZE	N/A			ZC-NC-G1270-350	350	

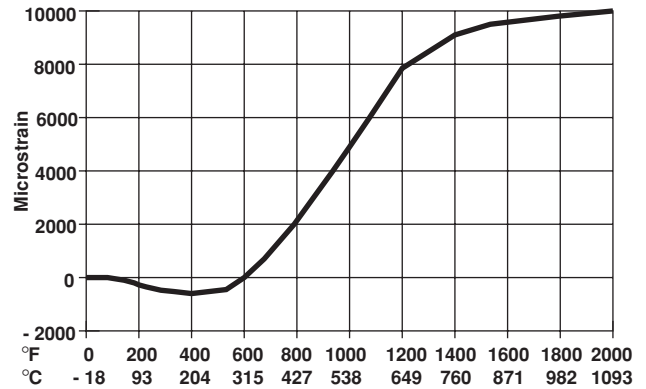


Special Purpose Strain Gages - High Temperature Patterns

GAGE FACTOR VARIATION WITH TEMPERATURE FOR ZC-SERIES GAGE



TYPICAL APPARENT STRAIN ZC-SERIES GAGE ON TITANIUM WITH H CEMENT



APPARENT STRAIN/THERMAL OUTPUT ZC-NC-G1267-120 GAGE

