

Class-C Strain Gauges for Stress Analysis

T&S class-C gauges are specially designed for application of stress analysis to be performed in some critic measurement conditions, like high temperatures (up to 250 °C), water proof, or high elongation.

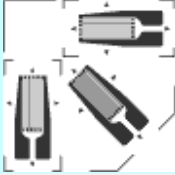

As long as temperature induced error is not so important that it is not necessary to take into account temperature compensation, the class-C strain gauges are recommended to use for stress analysis in above-mentioned critic measurement conditions.

The class-C gauges are organised in gauge part numbers (P/N). In order to choose a proper gauge according to gauge P/N, we suggest you first refer to Strain Gauge Coding System for a quick selection of the correct gauge.

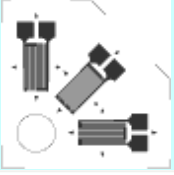
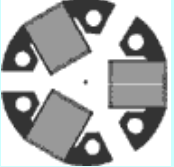
Following tables list all class-C gauges available in stock for quick delivery.

1. OKG series strain gauges for higher temperature measurements up to 250 °C, temperature compensation available


Gauge Pattern	Gauge Part Number (P/N)	Grid Dimensions (L x W) in mm	Backing Dimensions (L x W) in mm
<p>85</p> 	<p>OKG-120-4AA-(**)</p> <p>OKG-350-5AA-(**)</p>	<p>3.9 x 2.6</p> <p>5.0 x 4.1</p>	<p>8.0 x 4.4</p> <p>9.4 x 5.7</p>
<p>86</p> 	<p>OKG-350-3BB-(**)</p> <p>OKG-350-4BB-(**)</p>	<p>3.0 x 3.4</p> <p>4.0 x 4.3</p>	<p>8.8 x 6.8</p> <p>10.0 x 7.8</p>
<p>87</p> 	<p>OKG-350-4HA-D-(**)</p>	<p>4.0 x 3.3</p>	<p>8.2 x 8.2</p>
<p>88</p> 	<p>OKG-350-4HA-E-(**)</p>	<p>4.0 x 3.3</p>	<p>8.2 x 8.2</p>
<p>89</p> 	<p>OKG-120-3BA-(**)</p>	<p>3.0 x 2.5</p>	<p>10.8 x 10.8</p>




<p>90</p> 	<p>OKG-120-3CA-(**)</p>	<p>3.0 x 2.5</p>	<p>10.8 x 10.8</p>
<p>91</p> 	<p>OKG-350-(10)KA-(**) OKG-350-(15)KA-(**) OKG-350-(20)KA-(**)</p>	<p>Ø 9.0 Ø 14.0 Ø 19.0</p>	<p>Ø 10.0 Ø 15.0 Ø 20.0</p>

2. ECH series strain gauges for residual stress measurement

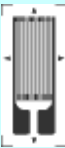


Gauge Pattern	Gauge Part Number (P/N)	Grid Dimensions (L x W) in mm	Backing Dimensions (L x W) in mm
<p>92</p> 	<p>ECH-120-2CA-K</p>	<p>2.0 x 1.5</p>	<p>9.3 x 9.3</p>
<p>93</p> 	<p>ECH-120-2CD-K ECH-120-3CD-K</p>	<p>2.0 x 1.5 3.1 x 1.8</p>	<p>dia = 14.0 dia = 16.0</p>

3. OCA and OKA series strain gauges for crack propagation measurement

Gauge Pattern	Gauge Part Number (P/N)	Grid Dimensions (L x W) in mm	Backing Dimensions (L x W) in mm
<p>94</p> 	<p>OCA-3-(10)MA OKA-3-(10)MA OCA-5-(10)MA OKA-5-(10)MA OCA-8-(10)MA OKA-8-(10)MA</p>	<p>31.0 x 10.0 31.0 x 10.0 35.0 x 10.0 35.0 x 10.0 30.0 x 10.0 30.0 x 10.0</p>	<p>38.0 x 12.0 38.0 x 12.0 37.0 x 12.0 37.0 x 12.0 35.0 x 12.0 35.0 x 12.0</p>

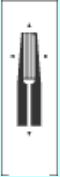
<p>95</p> 	OCA-3-(10)MB	23.0 x 9.0	30.0 x 11.0
	OKA-3-(10)MB	23.0 x 9.0	30.0 x 11.0
	OCA-5-(10)MB	18.0 x 9.5	31.0 x 11.0
	OKA-5-(10)MB	18.0 x 9.5	31.0 x 11.0
	OCA-8-(10)MB	30.0 x 10.0	35.0 x 12.0
	OKA-8-(10)MB	30.0 x 10.0	35.0 x 12.0
<p>96</p> 	OCA-8-2(10)MB	28.0 x 10.0	35.0 x 12.0
	OKA-8-2(10)MB		
<p>97</p> 	OCA-3-(6)MC	8.0 x 8.0	10.0 x 10.0
	OKA-3-(6)MC	8.0 x 8.0	10.0 x 10.0
	OCA-4-(12)MC	15.0 x 14.0	18.0 x 16.0
	OKA-4-(12)MC	15.0 x 14.0	18.0 x 16.0
	OCA-5-(18)MC	27.0 x 26.0	35.0 x 32.0
	OKA-5-(18)MC	27.0 x 26.0	35.0 x 32.0

4. OCI series strain gauges for high elongation measurement (strain limit available: 5%, 10%, 15%, and 20%)

Gauge Pattern	Gauge Part Number (P/N)	Grid Dimensions (L x W) in mm	Backing Dimensions (L x W) in mm
<p>98</p> 	OCI-120-6AA-(%)	6.0 x 3.2	12.0 x 8.0
	OCI-120-60AA-(%)	60.0 x 3.2	68.0 x 6.0
	OCI-350-5AA-(%)	5.0 x 4.9	10.3 x 7.8
<p>99</p> 	OCI-120-5AA-(%)-C	6.3 x 3.7	15.0 x 7.0
	OCI-350-5AA-(%)-C	5.0 x 4.9	12.9 x 7.8
<p>99'</p> 	TCI-DCA3- G1 *	3.4 x 2.0	5.0 x 5.0
	TCI-DCA6- G1 *	6.4 x 2.6	8.0 x 8.0
* : terminals used with No. 99 gauge			

5. ECU series water-proof strain gauges for stress measurement under water

Gauge Pattern	Gauge Part Number (P/N)	Grid Dimensions (L x W) in mm	Backing Dimensions (L x W) in mm
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<p style="text-align: center; color: blue;">100</p> 	<p>ECU-120-4AA-(**)</p> <p>ECU-350-4AA-(**)</p>	<p>4.0 x 2.3</p> <p>4.0 x 2.8</p>	<p>30.0 x 10.0</p> <p>29.0 x 12.0</p>
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The dimensions of gauge grid and gauge backing are subject to change without notice.