

"WITHOUT AN ORIGINAL THERE CAN BE NO IMITATION"

ACAM INSTRUMENTATION LTD

FOR TRANSDUCERS AND ELECTRONICS

PROVISIONAL



STRAIN GAUGES

CERAMIC GAUGES

Ceramic Strain Gauges are a low cost medium gauge factor strain gauge.

Acam Instrumentation can offer a wide range of facilities for strain gauging using Foil, Semiconductor and Ceramic strain gauges. We have over thirty years experience in strain gauging. We have designed and manufactured devices from miniature pressure transducers, load cells, torque transducers and strain transducers to on site gauging on capital plant.

We can design transducers to customer requirements or draw from over two hundred in house designs. We need from

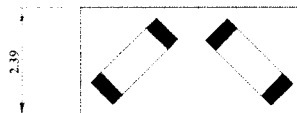
the customer a detailed description of the application including measurand range, end fittings, size restraints, electrical interface, expected accuracy, life requirements and a description of the expected environmental conditions such as temperature, vibration, shock and any contaminants.

We can strain gauge customers metalwork in order to produce a transducer within existing plant providing the metal is of suitable specification. We can also visit customers plant in order to do structural strain gauging



4.84

TYPE NO TYPE RESISTANCE
 ACAM - L - 350 LINEAR 350 OHMS
 ACAM - L - 1000 LINEAR 1000 OHMS
 ACAM - L - 10000 LINEAR 10000 OHMS



2.19

4.84

TYPE NO TYPE RESISTANCE
 ACAM - S - 350 SHEAR 350 OHMS
 ACAM - S - 1000 SHEAR 1000 OHMS
 ACAM - S - 10000 SHEAR 10000 OHMS

Acam Instrumentation Ltd
 23 Thomas St
 Northampton
 NN1 3EN
 Tel- 01604 628700
 Fax- 01604 628700
 Email- tom@acamltd.co.uk



Acam Instrumentation Ltd
 Manufacture A Variety Of
 Standard Sensors For The
 Measurement Of Load Pressure
 Torque and Strain.
 Please ask for Details

STANDARD GAUGE SPECIFICATION

Material	Ceramic
Operating Strain	+/-3000 micro inch/inch
Linearity	0.25% to 500 micro inch/inch
Max Operating Temperature	200 degC
Nominal Backing Size	4.84 X 2.4 mm
Gauge Resistance	350, 1000 or 10000 ohms

GAUGE HANDLING

Adhesive	Suitable for Ceramic
Handling	Treat as Foil Gauges
Solder	60/40 Solder

CUSTOMER QUESTIONNAIRE FOR CUSTOMER APPLICATIONS

MEASURAND	PRESSURE ect	_____
RANGE	VALUE AND UNITS	_____
SIZE	DESCRIBE	_____
MECHANICAL INTERFACE	THREAD OF FACE SIZE	_____
ELECTRICAL INTERFACE	CABLE OR CONNECTOR	_____
TEMPERATURE RANGE	degC or degF	_____
FLUIDS INVOLVED	ON CASE	_____
VIBRATION OR SHOCK	GIVE VALUES	_____
APPLICATION	HELPS DESIGNS	_____
TYPE ABS, GAUGE, DIFF	SEE BELOW	_____
MATERIAL SPECIFICATION	STATE MATERIAL DETAILS	_____

GIVE DETAILS OF OTHER RELEVANT INFORMATION HERE

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SEMICONDUCTOR STRAIN GAUGES

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SEMICONDUCTOR STRAIN GAUGES

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FOR CUSTOMER APPLICATIONS

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VIBRATION OR SHOCK	GIVE VALUES	_____
APPLICATION	HELPS DESIGNS	_____
TYPE ABS, GAUGE, DIFF	SEE BELOW	_____
MATERIAL SPECIFICATION	STATE MATERIAL DETAILS	_____

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Registered in England No 1543383
Registered Office: 23 Thomas St Northampton NN1 3EN
V.A.T. No: 314 9529 50

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BAKELITE SEMICONDUCTOR STRAIN GAUGES

Backed Semiconductor gauges can be handled by technicians with experience of foil strain gauges . They are currently available with a gauge resistance of 1000 ohms and gauge factor of 155. They are suitable for applications where an increased output is required.

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STANDARD GAUGE SPECIFICATION

Material	Czochralski pulled boron doped silicon
Operating Strain	+/- 2000 micro inch/inch (3000 micro inch/inch max)
Linearity	+/- 0.3% to 600 micro inch/inch
	+/- 1.6% to 1500 mcro strain
Max. Oper. Temperature	150 degC
Nominal Backing Size	10 mm X 5 mm
Gauge Active Length	0.060 or 0.080 inch
Gauge Resistance	1050 ohms nominal

GAUGE HANDLING

Adhesive Handling	Suitable for Polyimide Bend to absolute minimum Handle using backing only. Avoid touching gauge.
Solder	Low Temp 60/40 solder.

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