

"WITHOUT AN ORIGINAL THERE CAN BE NO IMITATION"

ACAM INSTRUMENTATION LTD

FOR TRANSDUCERS AND ELECTRONICS



LOAD CELLS

ALL LOAD CELL STYLES

Acam Instrumentation can offer a wide range of Load Cells for applications in General Industry, Medical and Military areas. We have over twenty-five years experience using foil and semiconductor strain gauges in the production of load cells.

We produce single and double ended beams using bending and shear beam technology, S beam tension and compression cells.

We manufacture using a variety of materials dependent on application that include stainless steel, EN24T, Inconel and titanium.

We can manufacture

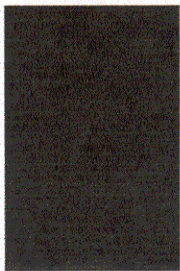
Load Cells for temperature ranges up to 300 degC with a degree of environmental protection compatible with the environment. This can vary from a single coating for OEM units being fitted inside customer's equipment to a hermetically sealed unit.

Calibration is traceable to national standards.

We understand that as a sensor the load cell is unique in the it as to support the load and must be compatible to customers mechanical interface. We will support the customer in designing is specific system.



TYPICAL LOAD CELL



Acam as a commitment to quality innovation, service and customer

Acam Instrumentation Ltd
23 Thomas St
Northampton
NN1 3EN
Tel- 01604 28700
Fax- 01604 28700



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

CUSTOMER QUESTIONNAIRE

FOR CUSTOMER APPLICATIONS

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	_____

GIVE DETAILS OF OTHER RELEVANT INFORMATION HERE

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SHEAR BEAMS LOAD CELLS

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ALL LOAD CELL STYLES

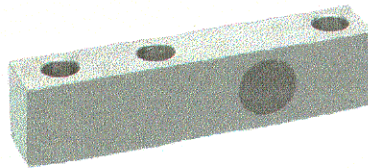
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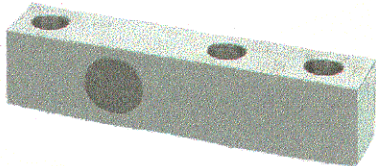
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Acam as a commitment to quality innovation, service and customer satisfaction.



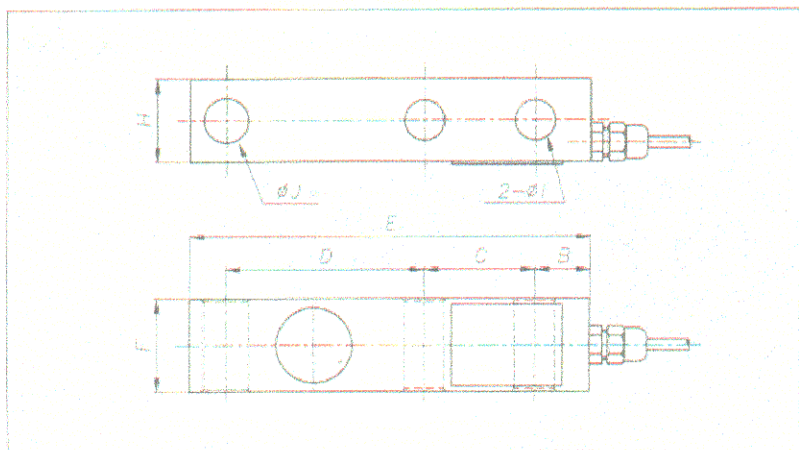
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OUTLINE DRAWING



UNIT : mm

CAP.	B	C	D	E	F	H	φ I	φ J	WEIGHT
500kgf	20	40	72	145	34	30	14.5	16	950g
1 tf	20	40	72	145	34	30	14.5	16	950g
2 tf	20	40	72	145	34	30	14.5	16	950g
5 tf	25	55	105	205	48	38	20.5	20.5	2.4kg

RATED LOAD (R.L.)	500kgf.1; 2, 5tf
RATED OUTPUT (R.O.)	2mV/V ± 0.5%
NON-LINEARITY	0.03% R.O.
HYSTERESIS	0.03% R.O.
REPEATABILITY	0.02% R.O.
CREEP (FOR 30min.)	0.03% R.O.
EXCITATION	DC 10V
MAXIMUM EXCITATION	DC 15V
ZERO BALANCE	1% R.O.
TERMINAL RESISTANCE : INPUT	400Ω ± 20Ω
TERMINAL RESISTANCE : OUTPUT	350Ω ± 5Ω
INSULATION RESISTANCE	2000MΩ
CABLE	φ 4, 4COLOR SHIELD CABLE 3m
TEMPERATURE EFFECT ON ZERO VALUE	0.03% R.O./10°C
TEMPERATURE EFFECT ON OUTPUT VALUE	0.03% R.O./10°C
COMPENSATED TEMPERATURE RANGE	-10°C TO +40°C
OPERATING TEMPERATURE RANGE	-20°C TO +60°C
SAFETY OVER LOAD	150% R.L.

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