



Solid Strain Gauge Load Cell



Annular Strain Gauge Load Cell



	PRODUCT CATEGORY:
	LOAD CELLS + PRESSURE SENSORS + STRESS METERS

Strain Gauge Load Cells

Strain Gauge Load Cells incorporate from 8 to 16 high output electrical resistance strain gauges in a full bridge configuration that are bonded to a high strength steel or stainless steel spool. This arrangement compensates for both temperature effects and off center loading. Strain Gauge Load Cells are available in virtually any size, in both annular and solid styles. Gauge waterproofing utilizes the latest application techniques and protective materials. The rugged design includes heavy duty protective cover, sealed construction, and low deflection under load.

Mounting surfaces should be flat and parallel for optimum performance. RST recommends the use of top & bottom loading platens for best performance with annular load cells.

> APPLICATIONS

Measure load/strain in various applications

> FEATURES

Compatible with any conventional strain indicator instrument	Optional readout (SG350 Bridge Transducer Readout- see separate brochure) in engineering units
High resistance strain gauges to minimize cable effects	Custom manufactured to fit project requirements
Matched calibration for readout in engineering units	Heat treated and stress relieved load element
Accommodates off center loading	High sensitivity
Long term reliability	Temperature compensated

Available with either a plug connector or with cable attached to load cells per client specified length

> BENEFITS

✓ Increase Safety	✓ High Accuracy
✓ High Reliability	✓ Custom Options



RST specializes in custom designs and options which can be accommodated to suit your site requirements. Shown here is a Load Cell with attached square platens.

Strain Gauge Load Cells

	PRODUCT CATEGORY:
	LOAD CELLS + PRESSURE SENSORS + STRESS METERS

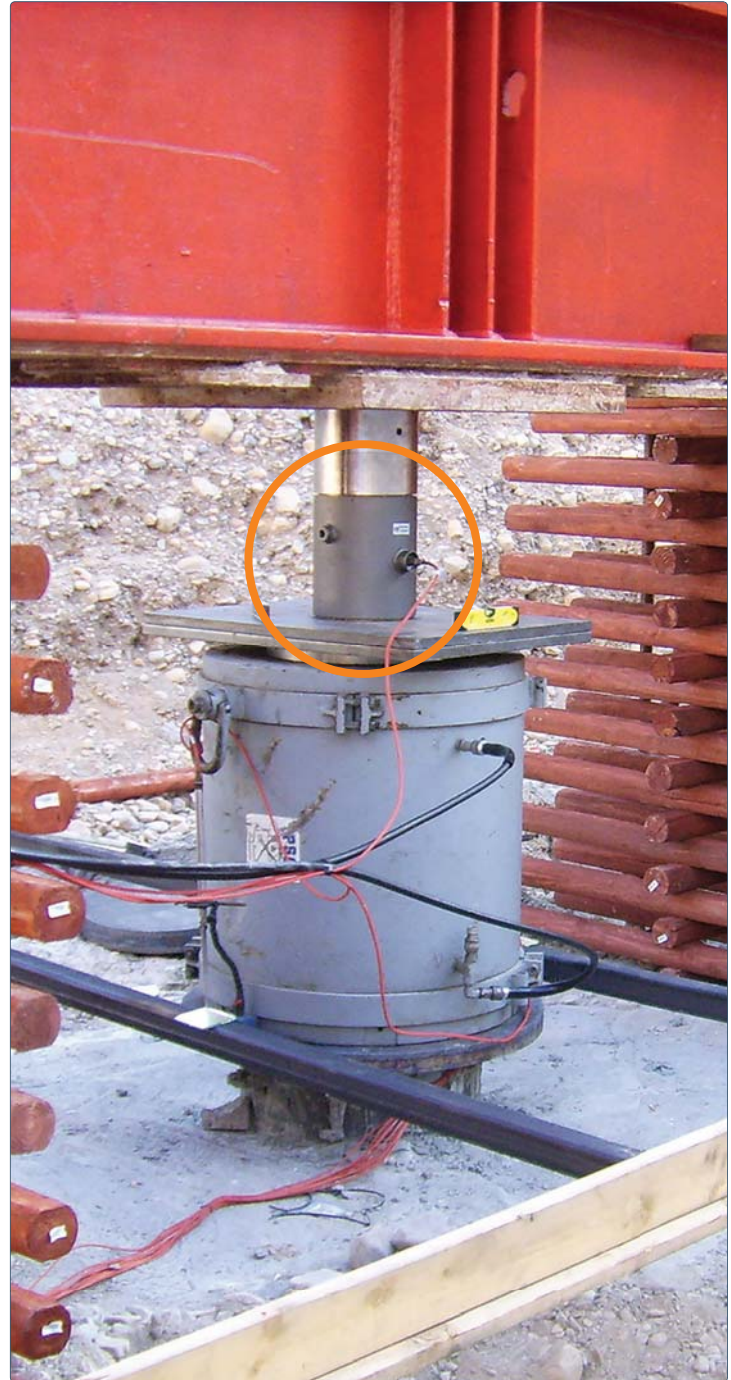
SPECIFICATIONS + ORDERING

STANDARD DIMENSIONS								
MODEL	CAPACITY		I.D.		O.D.		HEIGHT	
	KIPS	KN	IN.	MM.	IN.	MM.	IN.	MM.
SGA-50-1	50	233	1.0	25	4.0	102	3.0	76
SGA-100-1	100	445	1.0	25	4.0	102	3.0	76
SGA-136-1.4	136	605	1.4	36	4.5	114	3.5	89
SGA-200-1.75	200	890	1.75	44	5.0	127	5.0	127
SGA-255-2.0	255	1135	2.0	51	5.5	140	5.25	133
SGA-300-2.0	300	1334	2.0	51	5.5	140	5.25	133
SGA-300-3.0	300	1334	3.0	76	6.0	152	6.25	159
SGA-400-2.5	400	1779	2.5	63	6.0	152	6.25	159
SGA-400-3.5	400	1779	3.5	89	7.0	178	7.25	184
SGA-600-3.0	600	2669	3.0	76	7.0	178	7.5	190
SGA-600-4.0	600	2669	4.0	102	7.75	197	8.5	216
SGA-1665-LC	1665	7406	N/A	N/A	8.5	216	11.8	300

NOTE: These dimensions are typical only and may be modified to suit project requirements. The model number is determined as follows: eg. SGA - 200 - 1.5
SGA - Strain Gauge Annular Cell
200 - Maximum capacity in Kips
1.5 - Hole size in inches

SPECIFICATIONS	
ITEM	DESCRIPTION
Capacity	22.5 kN to 10675 kN (5,000 lbs to 2,400,000 lbs)
Hole Size	16 mm to 356 mm (5/8 in. to 14 in.), as required
Material	High strength steel or stainless elements
Temperature Compensation	-40°F to +107°F (-40°C to +40°C)
Overrange	100% FS
Sensitivity	±2.0mV/V

ORDERING INFO	OPTIONAL EQUIPMENT	ACCESSORIES
Application	Armored cable Metal military, or plastic connectors (connectors not recommended in waterproof applications) Readout: SG350 Bridge Transducer Readout	Cable
Annular or solid cell		Load and bearing plates
Maximum capacity and smallest increment required		Terminal stations
Environmental data		Centralizer bushings if required
Size limitations		
Cable connection and length		
Loading Platens		
Options		



A pile test being performed with an RST Strain Gauge Load Cell (circled) with a capacity for 1,000 kips.