

## List of Instrumentation

1. The name for strain gauges which ends with letter “A” means it’s a channel for axial force measurement and full bridges are used for those channels. Others are for moment measurement and use half bridges.
2. The name for each channel contains the type of sensors, the floor number, the type of structural member where sensor is installed and the position of sensor (east or west side). For those names ending with numbers, which means there are more than one sensor in that member, the numbers are arranged according to the positions of sensors in that member: from bottom to top and from west to east.
3. Notations:
  - A: accelerometer
  - SP: string pot
  - SG: strain gauge
  - K: krypton
  - BR: brace
  - BM: beam
  - CL: column
  - ZC: zipper column
4. Details of the instrumentation positions are shown in next 3 sketches.

NUMBER	NAME	TYPE OF SENSOR	NOTE
1	A1	accelerometer	1st floor, east-west acceleration
2	A2	accelerometer	2nd floor, east-west acceleration
3	A3	accelerometer	3rd floor, east-west acceleration
4	SP1BRW	string pot	1st floor brace, west side
5	SP1BRE	string pot	1st floor brace, east side
6	SP1BMH	string pot	center of 1st floor beam, horizontal
7	SP1BMV	string pot	center of 1st floor beam, vertical
8	SP1	string pot	1st floor, lateral displ.
9	SP2BRW	string pot	2nd floor brace, west side
10	SP2BRE	string pot	2nd floor brace, east side
11	SP2	string pot	2nd floor, lateral displ.
12	SP3	string pot	3rd floor, lateral displ.
13	SG1BRW1	Strain Gauge	
14	SG1BRWA	Strain Gauge	Axial force, Full bridge

15	SG1BRW2	Strain Gauge	
16	SG1BRW3	Strain Gauge	
17	SG1BRW4	Strain Gauge	
18	SG1BRE1	Strain Gauge	
19	SG1BREA	Strain Gauge	Axial force, Full bridge
20	SG1BRE2	Strain Gauge	
21	SG1BRE3	Strain Gauge	
22	SG1BRE4	Strain Gauge	
23	SG1BMWw	Strain Gauge	
24	SG1BMWA	Strain Gauge	Axial force, Full bridge
25	SG1BMWe	Strain Gauge	
26	SG1BMEw	Strain Gauge	
27	SG1BMEA	Strain Gauge	Axial force, Full bridge
28	SG1BMEe	Strain Gauge	
29	SG1CLW1	Strain Gauge	
30	SG1CLW2	Strain Gauge	
31	SG1CLE1	Strain Gauge	
32	SG1CLE2	Strain Gauge	
33	SG2ZCA	Strain Gauge	Axial force, Full bridge
34	SG2BRWA	Strain Gauge	Axial force, Full bridge
35	SG2BREA	Strain Gauge	Axial force, Full bridge
36	SG2BMWw	Strain Gauge	
37	SG2BMWA	Strain Gauge	Axial force, Full bridge
38	SG2BMWe	Strain Gauge	
39	SG2BMEw	Strain Gauge	
40	SG2BMEA	Strain Gauge	Axial force, Full bridge
41	SG2BMEe	Strain Gauge	
42	SG2CLW1	Strain Gauge	
43	SG2CLW2	Strain Gauge	
44	SG2CLE1	Strain Gauge	
45	SG2CLE2	Strain Gauge	
46	SG3ZCA	Strain Gauge	Axial force, Full bridge
47	SG3BRWA	Strain Gauge	Axial force, Full bridge
48	SG3BREA	Strain Gauge	Axial force, Full bridge
49	K1BRW1	krypton	1st floor brace, west side
50	K1BRW2	krypton	1st floor brace, west side
51	K1BRW3	krypton	1st floor brace, west side
52	K1BRW4	krypton	1st floor brace, west side
53	K1BRW5	krypton	1st floor brace, west side
54	K1BRW6	krypton	1st floor brace, west side
55	K1BRW7	krypton	1st floor brace, west side
56	K1BRE1	krypton	1st floor brace, east side
57	K1BRE2	krypton	1st floor brace, east side
58	K1BRE3	krypton	1st floor brace, east side
59	K1BRE4	krypton	1st floor brace, east side
60	K1BRE5	krypton	1st floor brace, east side
61	K1BRE6	krypton	1st floor brace, east side
62	K1BRE7	krypton	1st floor brace, east side





