

GSG-Cx Strain Gage

Features

- ❑ Self-temperature compensated transducer having a linear thermal expansion coefficient similar to concrete
- ❑ Low elastic modulus enables inner strain measurement during the very early stages of curing
- ❑ Simultaneous measurement of strain and temperature
- ❑ Surface strain measurement is also available onto retaining wall, strut, sheet pile, etc.



Outline

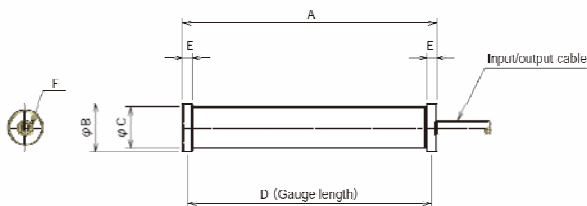
The GSG-Cx series strain transducers are designed to measure strain in materials such as concrete, synthetic resin which undergo a transition from a compliant state to a hardened state. Their extremely low modulus and waterproof construction are ideally suited for internal strain measurement during the very early stages of curing. They are totally impervious to moisture absorption, producing excellent stability for long-term strain measurement.

Specifications GSG-Cx Strain Gage

Sensor

TYPE		C30	C50F	C100A	C100B	C100HB	C200A	C100AT	C100BT	C200AT
Capacity	[x10 ⁻⁶ strain]	± 5000								
Gauge length	[mm]	31	50	100			200		100	200
Rated output	[mV/V]	2.5	4	2.5			5	2.5		5
	[x10 ⁻⁶ strain]	5000	8000	5000			10000	5000		10000
Non-linearity	[% RO]	1								
Apparent elastic modulus	[N/mm ²]	40		1000	40		1000		40	1000
Integral temperature		Not available			Relative			Real		
Temperature range	[°C]	-20 to +60	-20 to +80			-20 to +180	-20 to +80			
Input/Output	[∅]	120 Half bridge			350 Full Bridge					

Mechanical Data



Type	Dimensions [mm]						Weight [g]
	A	B	C	D	E	F	
C30	34	12	10	31	3	M3 Depth4	12
C50F	54	20	17	50	4	M3 Depth6	45
C100A / C100B	104	20	17	100	4	M3 Depth6	75
C100HB	104	20	17	100	4	M3 Depth6	80
C200A	205	28	23	200	5	M5 Depth8	220
C100AT / C100BT	104	20	17	100	4	M3 Depth6	75
C200AT	205	28	23	205	5	M5 Depth8	220