Outline

Compressive

Tensile

Tensile & compressive

Component

Other

●Nonlinearity: Within ±0.05% RO ●50 to 200 kN

Small-sized Compression Load Cell



Compact & lightweight Nonlinearity: Within ±0.05% RO

 Hermetically sealed structure with inert gas filled in •BISELCOM gages are used.

Compact & lightweight design facilitates installation into existing facilities. While nonlinearity of within ±0.05% RO is ensured, the hermetically-sealed structure with inert gas filled in enables highly stable and reliable measurement.

*BISELCOM gages are self-temperature-compensation strain gages with the sensitivity temperature compensation function added.

Specifications

Performance

Rated Capacity	See table below.
Nonlinearity	Within ±0.05% RO
Hysteresis	Within ±0.05% RO
Repeatability	0.03% RO or less
Rated Output	2.5 mV/V ±0.2%

Environmental Characteristics

Safe Temperature	-20 to 80°C
Compensated Temperature	-10 to 70°C
Temperature Effect on Zero	Within ±0.003% RO/°C
Temperature Effect on Output	Within +0.003%/°C

Electrical Characteristics

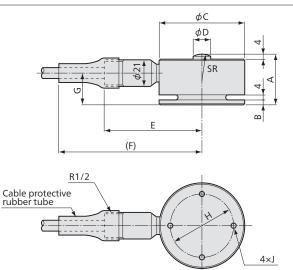
Safe Excitation	20 V AC or DC						
Recommended Excitation	1 to 10 V AC or DC						
Input Resistance	350 Ω ±0.5%						
Output Resistance	350 Ω ±0.5%						
Cable 4-conductor (0.5 mm	e 4-conductor (0.5 mm²) chloroprene shielded cable,						
8.5 mm diameter by 5 m long, bared at the tip							
(Shield wire is not connected to the case.)							

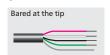
Mechanical Properties

Safe Overloads	150%
Natural Frequencies	See table below.
Weight	See table below.
Degree of Protection	IP67 (IEC 60529)
Compliance	Directive 2011/65/EU (RoHS)

Optional Accessories Saddle CA-B (Page 2-72) Mount base CF (Page 2-72) Steady brace CR (Page 2-22)

Dimensions





Models	Rated Capacity	Natural Frequencies (Approx.)	А	В	φС	φD	E	(F)	G	Н	J	SR	Weight (Approx.)*
LC-5TV	50 kN	17 kHz	40	4	68	14	78	114	25	50	M5	40	1 kg
LC-10TV	100 kN	16 kHz	45	5	78	20	83	119	29	60	M6	70	1.3 kg
LC-20TV	200 kN	15 kHz	55	6	98	26	93	129	36	80	M8	120	3.1 kg

*Excluding cable

Physical quantity indication













Data Logger UCAM-60 series

2-21