

SPECIFICATIONS

Low Capacity Universal Type
Load Cell

LOAD CELL
UT-100GR ~ 2K

SPEC.No.EN214011-C 1/2

Performance

Rated capacity : 980.7 mN{100 gf} ~ 19.61 kN{2 kgf}
 Safe overload : 150 %R.C.
 Ultimate overload : 150 %R.C.
 Rate output : $\pm 2 \text{ mV/V} \pm 0.4 \text{ mV/V}$
 (UT-100GR : $\pm 1.75 \text{ mV/V} \pm 0.35 \text{ mV/V}$ or more)

Non-linearity : 0.3 %R.O.

Hysteresis : 0.3 %R.O.

Repeatability : 0.3 %R.O.

Electrical

Excitation, recommended : 3 V or less

Excitation, at maximum : 6 V

Zero balance : $\pm 0.2 \text{ mV/V}$ (UT-100GR : $\pm 0.175 \text{ mV/V}$)

Input resistance : 270 ± 40

Output resistance : 270 ± 40

Insulation resistance : 1 000 M or more (DC 50 V)

(Between bridge and main body)

Temperature

Temperature range, compensated : 0 to 50

Temperature range, safe : - 10 to 60

Temperature effect on zero balance : 0.5 %R.O./10

Temperature effect on output : 0.5 %LOAD/10

Cable : 4-cores parallel vinyl 60 cm wire directly attached.
 Cable end is separated.

Class of protection : Equivalent to IP30.

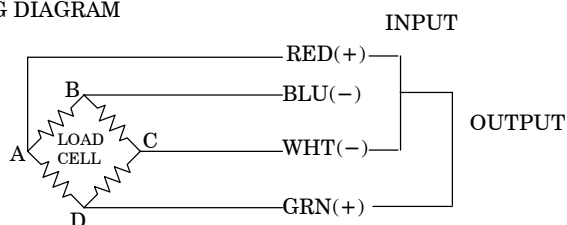
Durability : 10^6 times at rated load

Note) R.O. means Rated Output and R.C. means Rated Capacity.

Polarity output will become minus (-) when the direction of compression load is applied.

If polarity change is required, change wiring of blue and green.

WIRING DIAGRAM



Composition

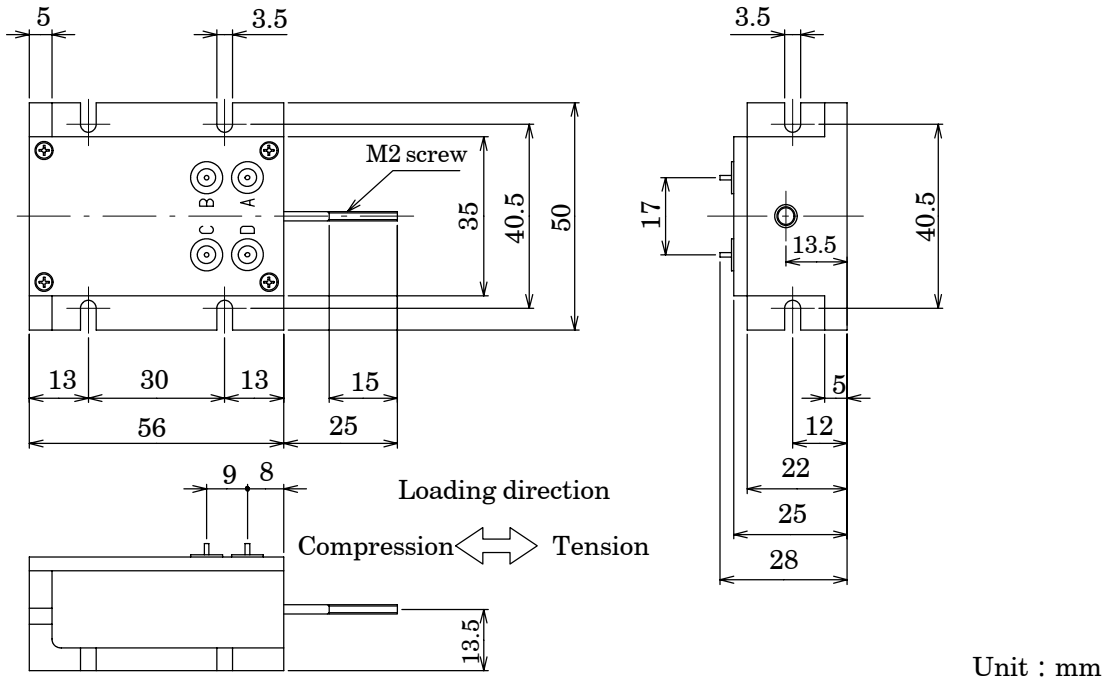
Main body	1
Inspection data	1

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2/2



Outline dimensions

Unit : mm

P/N	Rated capacity	Displacement	Natural frequency(Hz)	Weight (Approx. g)
UT-100GR	980.7 mN{100 gf}	± 0.03	300	100
UT-200GR	1.961 N{200 gf}	± 0.04	440	100
UT-500GR	4.903 N{500 gf}	± 0.04	700	100
UT-1K	9.807 N{1 kgf}	± 0.04	980	100
UT-2K	19.61 N{2 kgf}	± 0.04	1 310	100

Specifications and outline dimensions and so on which have printed may subject to change for the purpose of improvement without notice.