TEAC

Compression Load Cell

# TC-AR(T)□□KN-G6/8

Accuracy **Linearity 0.15%, 0.1%** (G6) (G8)

Body Material **Stainless Steel**

## Compression Load Cell

### Benefit

Easy to install on the existing facilities/systems.

### Mounting Method

Four M5 or M8 screws to mount. (Screw size varies by models.)

### Durable Robot Cable standardized

Enhanced durability against bending that occurs in moving parts with frequent repetitive motion, such as industrial robots and machine tools. High stability and reliability are realized.

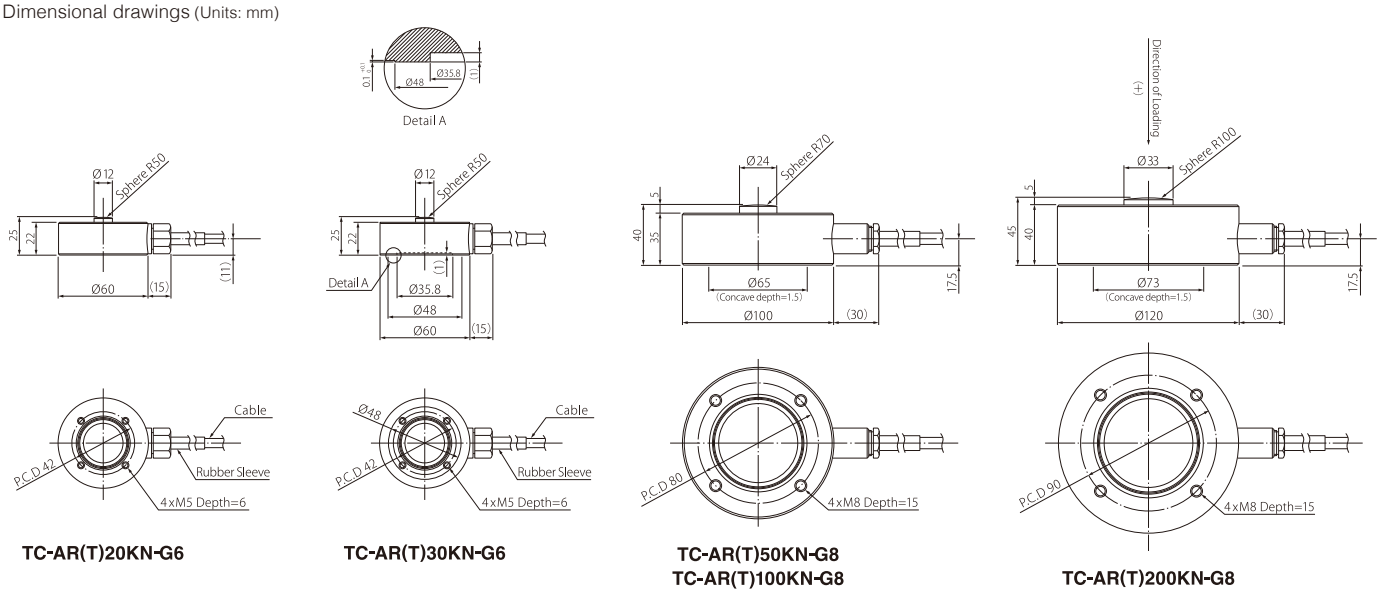
### Plug & Play with built-in TEDS

With the TD series indicators, equivalent input calibration, likely to forget in manual setting, can be performed automatically and help prevetion.
(See the reverse page for detail on TEDS)

## Specifications

| Type | Copression Load Cell | | | | |
|---|---|---|---|---|---|
| Model | **TC-AR(T)□□KN-G6/8** TEDS (Embeded in the body) RoHS (10 substances) | | | | |
| Line up | **TC-AR(T)20KN-G6** | **TC-AR(T)30KN-G6** | **TC-AR(T)50KN-G8** | **TC-AR(T)100KN-G8** | **TC-AR(T)200KN-G8** |
| Rated Capacity (R.C.) | 20kN | 30kN | 50kN | 100kN | 200kN |
| Natural Frequency | 23kHz | 23kHz | 7.7kHz | 11kHz | 50kHz |
| Weight (Approx.) | 0.8kg | 0.8kg | 1.8kg | 1.8kg | 3.1kg |
| Safe overload rating | 150% R.C. | | | | |
| Rated Output (R.O.) | 2mV/V ±1% | | | | |
| Linearity | 0.15% R.O. | | 0.1% R.O. | | |
| Hysterisis | 0.15% R.O. | | | | |
| Repeatability | 0.1% R.O. | | | | |
| Safe Excitation Voltage | 15V | | | | |
| Input Terminal Resistance | 425 ±50Ω | | | | |
| Output Terminal Resistance | 350 ±5Ω | | | | |
| Insulation Resistance | 1000MΩ or more (50V DC) | | | | |
| Compensated Temperature Range | −10°C to 70°C | | | | |
| Permissible Temperature Range | −30°C to 80°C | | | | |
| Temperature Effect on Zero Balance | 0.1% R.O. / 10°C | | | | |
| Temperature Effect on Output | 0.1% R.C. / 10°C | | | | |
| Cable | Φ6, 6-core shielded, 5m direct connection robot cable with bare lead wires | | Φ8, 6-core shielded, 5m direct connection robot cable with bare lead wires | | |
| Mounting Method | Screw holes | | | | |
| Body Material | Stainless Steel | | | | |

Dimensional drawings (Units: mm)



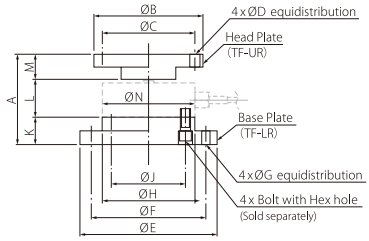

**TC-AR(T)20KN-G6**

**TC-AR(T)30KN-G6**

**TC-AR(T)50KN-G8**
**TC-AR(T)100KN-G8**

**TC-AR(T)200KN-G8**

**Head Olate, Base Plate**




| Model | Head Plate (Weight) | Base Plate (Weight) | Bold w/ Hex hole | A | ØB | ØC | ØD | ØE | ØF | ØG | ØH | ØJ | K | L | M | ØN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TC-AR(T)-G6 20kN | TF-UR102F (approx. 0.13kg) | TF-LR060F (approx. 0.6kg) | 12 x M5 | 55 | 53 | 38 | 6.6 | 98 | 80 | 6.6 | 60 | 42 | 15 | 25 | 15 | 60 |
| TC-AR(T)-G6 30kN | | | 12 x M5 | 55 | 53 | 38 | 6.6 | 98 | 80 | 6.6 | 60 | 42 | 15 | 25 | 15 | 60 |
| TC-AR(T)-G8 50kN | TF-UR050F (approx. 1.53kg) | TF-LR101F (approx. 2.9kg) | 25 x M5 | 98 | 118 | 100 | 11 | 148 | 124 | 9 | 100 | 80 | 30 | 40 | 28 | 100 |
| TC-AR(T)-G8 100kN | | | 25 x M5 | 98 | 118 | 100 | 11 | 148 | 124 | 9 | 100 | 80 | 30 | 40 | 28 | 100 |
| TC-AR(T)-G8 200kN | | TF-LR121F (approx. 5.8kg) | 30 x M5 | 113 | 118 | 100 | 11 | 168 | 144 | 14 | 120 | 90 | 40 | 45 | 28 | 120 |

## Related Products (Indicators and Signal Conditioners)

New
EtherNet/IP™ model
CC-Link model

92 x 92mm
Panel opening size

Color Graphics Digital Indicator

### TD-9000T

RS-485 model
EtherNet/IP™ model
CC-Link model

**High performance model with large LCD**

Supporting two inputs, force sensor and displacement sensor, various comparison judgments function, and direct saving of waveform data onto large capacity internal memory.

92 x 45mm
Panel opening size

Digital Indicator

### TD-700T

Standard model
CC-Link model
RS-485 model

**Excellent model with compact and high functionality**

Supporting five key functions in one unit, numeric display, graph display, TEDS function, static strain display, and signal conditioner. This small and cost-effective TD-700T achieves equal or even higher performance to upper-class models, with high-visibility color LCD and various hold functions.

New

Attaches to common DIN rails

Signal Conditioner

### TD-SC1

D/A model
RS-485 model

**Slim and light-weight signal conditioner**

Supporting high-speed sampling of 20,000 times/second, PC-based configuration via USB connection, selectable network, and TEDS calibration function.

* Under planning

Weighs only 320g (incl. batteries)

Portable Digital Indicator

### TD-01 Portable

**On-site checking tool with versatility**

Supporting various functions that equal to embeded systems, in hand-held size, allowing you to take measurements anytime anywhere, according to your purpose.



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