

Accuracy

Body  
Material

Linearity 0.1%

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

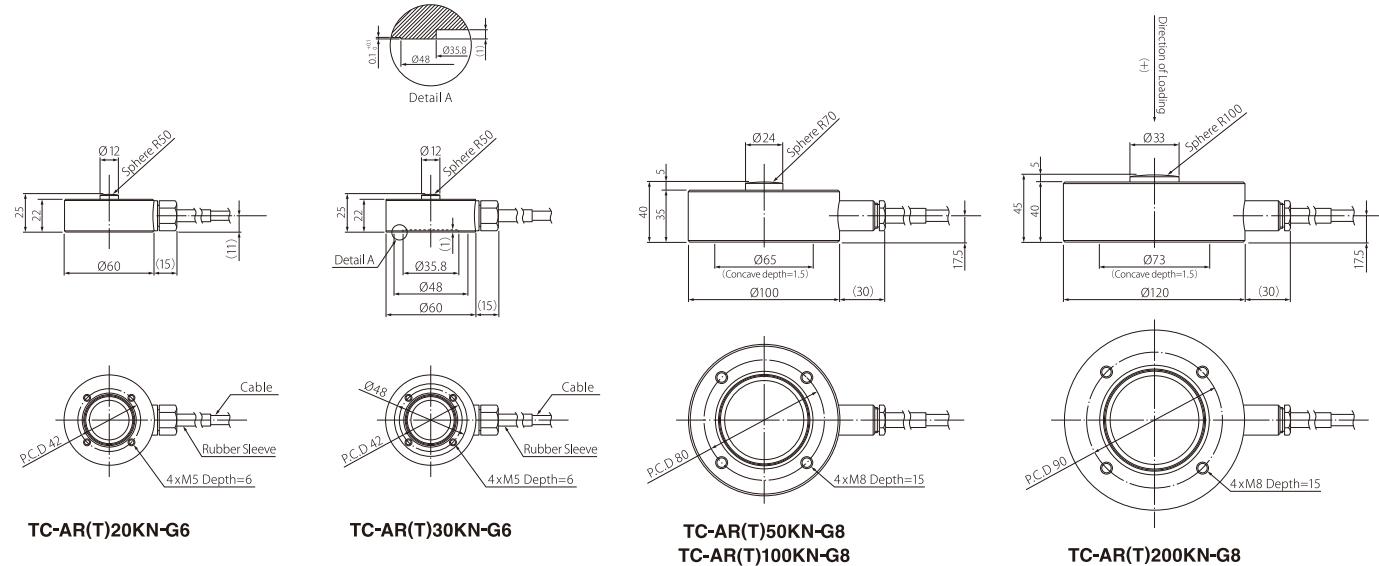
With the TD series indicators, equivalent input calibration, likely to forget in manual setting, can be performed automatically and help prevention.  
(See the reverse page for detail on TEDS)

## Specifications

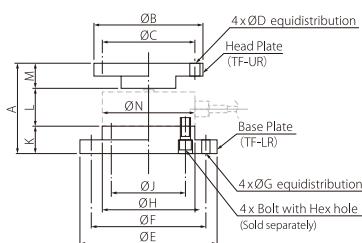
Type	Copression Load Cell							
Model	<b>TC-AR(T)□□KN-G6/8</b>							
Line up	<b>TC-AR(T)20KN-G6</b>	<b>TC-AR(T)30KN-G6</b>	<b>TC-AR(T)50KN-G8</b>	<b>TC-AR(T)100KN-G8</b>	<b>TC-AR(T)200KN-G8</b>			
Rated Capacity (R.C.)	20kN	30kN	50kN	100kN	200kN			
Natural Frequency	23kHz	23kHz	7.7kHz	11kHz	50kHz			
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	0.1% R.O.							
Hysteresis	0.15% R.O.							
Repeatability	0.1% R.O.							
Safe Excitation Voltage	15V							
Input Terminal Resistance	425Ω ±50Ω							
Output Terminal Resistance	350Ω ±5Ω							
Insulation Resistance	1000MΩ or more (50VDC)							
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							

**TEDS** (Embeded in the body)  
**RoHS** (10 substances)

Dimensional drawings (Units: mm)



#### Head Olate, Base Plate



Model	Head Plate (Weight)	Base Plate (Weight)	Bolt 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. 2.9kg)	TF-LR101F (approx. 1.53kg)	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			30 x M5	113	118	100	11	168	144	14	120	90	40	45	28	120

#### Related Products (Indicators and Signal Conditioners)



Color Graphics Digital Indicator  
**TD-9000T**

**PNP type** (Standard) **PNP type**  
Standard model Standard model  
EtherNet/IP™ model EtherNet/IP™ model  
CC-Link 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.

**EtherNet/IP**



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.



Signal Conditioner  
**TD-SC1**

D/A model  
RS-485/Modbus RTU model  
CC-Link model  
EtherNet/IP™ 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.



Portable Digital Indicator  
**TD-01 Portable**

Weights only 320g (incl. batteries)

#### 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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