

# Accurate compression type load cell CMP1-※ series

2024/02/28

## Features



Precise low profile load cell with all stainless steel structure.

## Specification

Specification name	Specification contents
Rated capacity	2.452 kN {250 kgf}~196.1 kN {20 tf}
Safe overload	150 %R.C.
Ultimate overload	200 %R.C.
Rated output	2 mV/V±0.005 mV/V(CMP1-250K : 1 mV/V±0.005 mV/V)
Non-linearity	0.05 %R.O.
Hysteresis	0.05 %R.O.
Repeatability	0.05 %R.O.
Excitation, recommended	12 V or less
Excitation, maximum	18 V
Zero balance	±0.02 mV/V
Input resistance	350 Ω±3.5 Ω
Output resistance	350 Ω±5 Ω
Insulation resistance	2,000 MΩ or more (DC50 V) (between bridge and main body)
Temp. range, compensated	-10 °C~70 °C
Temp. range, safe	-20 °C~80 °C
Temp. effect on zero	0.05 %R.O./10 °C (CMP1-250K : 0.10 %R.O./10 °C)
Temp. effect on output	0.10 %LOAD/10 °C
Class of protection	IP68 or equivalent
Material of element	Stainless steel

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Durability	1,000,000 times with rated load applied.
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## Table of P/N

Parts No.	Rated capacity [kN]	Rated capacity [kgf]	Rated capacity [tf]	Natural frequency [Hz]	Rated displacement [mm]	Weight(Approx.) [kg]
CMP1-250K	2.942	250		1900	0.03	1.8
CMP1-500K	4.903	500		2600	0.06	1.8
CMP1-1T	9.807		1	4000	0.06	1.8
CMP1-2T	19.61		2	9000	0.06	1.8
CMP1-5T	49.03		5	12000	0.07	1.8
CMP1-10T	98.07		10	12000	0.11	2
CMP1-20T	196.1		20	12000	0.14	3.7

Parts No.	Cable	3D CAD files [STEP]	CAD files[DXF]	Specification sheet	Instruction Manual
CMP1-250K	φ7, 4-cores shielded 10 m cable directly attached, Y-type crimp terminal lugs are attached at cable end.	<a href="#">CMP1-250K~5T.zip</a>	<a href="#">cmp1_250k.dxf</a>	No.KT51168-2	<a href="#">ENKT60244-1_CMM1+CMPI+UMM1.pdf</a>
CMP1-500K	φ7, 4-cores shielded 10 m cable directly attached, Y-type crimp terminal lugs are attached at cable end.	<a href="#">CMP1-250K~5T.zip</a>	<a href="#">cmp1_250k.dxf</a>	No.KT51168-2	<a href="#">ENKT60244-1_CMM1+CMPI+UMM1.pdf</a>
CMP1-1T	φ7, 4-cores shielded 10 m cable directly attached, Y-type crimp terminal lugs are attached at cable end.	<a href="#">CMP1-250K~5T.zip</a>	<a href="#">cmp1_250k.dxf</a>	No.KT51168-2	<a href="#">ENKT60244-1_CMM1+CMPI+UMM1.pdf</a>
CMP1-2T	φ7, 4-cores shielded 10 m cable directly attached, Y-type crimp terminal lugs are attached at cable end.	<a href="#">CMP1-250K~5T.zip</a>	<a href="#">cmp1_250k.dxf</a>	No.KT51168-2	<a href="#">ENKT60244-1_CMM1+CMPI+UMM1.pdf</a>
CMP1-5T	φ7, 4-cores shielded 10 m cable directly attached, Y-type crimp terminal lugs are attached at cable end.	<a href="#">CMP1-250K~5T.zip</a>	<a href="#">cmp1_250k.dxf</a>	No.KT51168-2	<a href="#">ENKT60244-1_CMM1+CMPI+UMM1.pdf</a>

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CMP1-10T	φ7, 4-cores shielded 10 m cable directly attached, Y-type crimp terminal lugs are attached at cable end.	<a href="#">CMP1-10T.zip</a>	<a href="#">cmp1_10t.dxf</a>	No.KT51168-2	<a href="#">ENKT60244-1_CMM1+CMPI+UMM1.pdf</a>
CMP1-20T	φ7, 4-cores shielded 10 m cable directly attached, Y-type crimp terminal lugs are attached at cable end.	<a href="#">CMP1-20T.zip</a>	<a href="#">cmp1_20t.dxf</a>	No.KT51168-2	<a href="#">ENKT60244-1_CMM1+CMPI+UMM1.pdf</a>

## Options

<Expansion plate>

[EP series EP2](#)

<Mounting plate>

[BP/MP series BPMP3](#)

<Mounting attachment with slide-stop mechanism>

[Flexible stop method mounting attachment FCA-CMM1/CMP1 series](#)

[Steel ball method mounting attachment SCA-CMM1/CMP1 series](#)