

Middle capacity scale for commercial scale

2023/03/22

Features



- Applied for multi-point method platform scale
- High-accuracy Load Cell

Specification

Specification name	Specification contents
Rated capacity	2.942 kN{300 kgf}~68.65 kN{7 tf}
Safe overload	150 %R.C.
Ultimate overload	200 %R.C.
Rated output	2 mV/V±0.002 mV/V
Non-linearity	0.025 %R.O.
Hysteresis	0.025 %R.O.
Repeatability	0.025 %R.O.
Creep	0.03 %R.O./20 min
Creep recovery	0.03 %R.O./20 min
Excitation, recommended	12 V or less
Excitation, maximum	16 V
Zero balance	±0.02 mV/V
Input resistance	420 Ω (+ 30 Ω, - 20 Ω)

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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~50 °C
Temp. range, safe	-20 °C~70 °C
Temp. effect on zero	0.05 %R.O./10 °C
Temp. effect on output	0.002 %LOAD/10 °C
Class of protection	IP64 or equivalent
Material of element	Alluminium alloy (C2T1-7T : Alloy steel)
Material of element2	Alloy steel
Durability	1,000,000 times with rated load applied.

Table of P/N

Parts No.	Rated capacity [kN]	Rated capacity [kgf]	Rated capacity [tf]	Weight(Approx.) [kg]	Natural frequency [Hz]	Rated displacement [mm]
C2T1-300K-A	2.942	300		1.1	3700	0.25
C2T1-600K-A	5.884	600		1.1	5000	0.25
C2T1-1T-A	9.807		1	1.3	5500	0.28
C2T1-2T-A	19.61		2	1.3	6800	0.32
C2T1-3T-A	29.42		3	2.4	5500	0.40
C2T1-4T-A	39.23		4	2.4	6700	0.40
C2T1-7T	68.65		7	8.4	3500	0.60

Parts No.	Class of protection	3D CAD files [STEP]	CAD files[DXF]
C2T1-300K-A	IP64 or equivalent	C2T1-300K-A.STEP	c2t1_300ka.dxf
C2T1-600K-A	IP64 or equivalent	C2T1-600K-A.STEP	c2t1_600ka.dxf
C2T1-1T-A	IP64 or equivalent	C2T1-1T-A.STEP	c2t1_1ta.dxf
C2T1-2T-A	IP64 or equivalent	C2T1-2T-A.STEP	c2t1_2ta.dxf
C2T1-3T-A	IP64 or equivalent	C2T1-3T-A.STEP	c2t1_3ta.dxf
C2T1-4T-A	IP64 or equivalent	C2T1-4T-A.STEP	c2t1_4ta.dxf
C2T1-7T	IP64 or equivalent		c2t1_7t.dxf

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Options

Metal fittings (TB-**A)