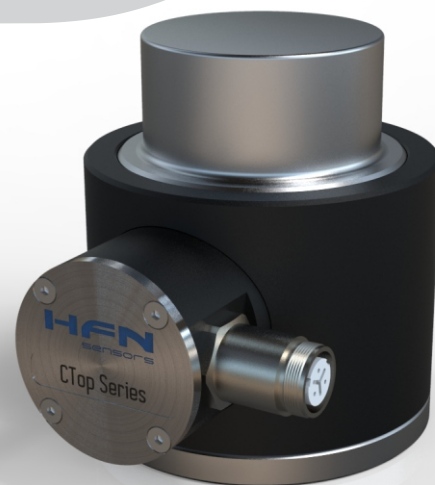


► Load Cell CTop Series

- Wide range of capacities: 2 to 1000t (20kN to 10 MN)
- Sealed to IP65 (standard, IP-67/68 versions available)
- Material: Nickel-plated steel (CTopS) or Stainless Steel (CTopSS)
- Can Be Supplied with a whole range of Loading Cap and Mounting Base
- InMetro RBC Calibration Certificate available.
- Also available as reference load cells according to ISO 376 (classes 1, 0.5). See Model CTop376
- Optional Amplifier Output:
 - o V, mA, RS485 (other upon request)
 - o Version with USB-C Connector (Digital USB Load Cell)
 - o 2.4 GHz Wireless HFN[®] BD Series transmitter.
- 3 Years Warranty



CTop-500kN
Compression load/force load cell

Applications

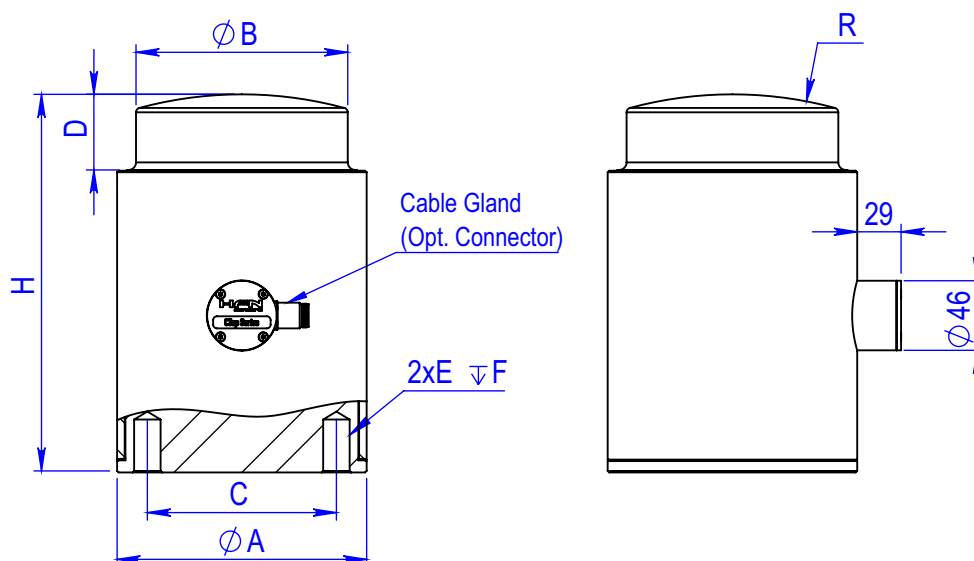
- Industrial Load/Force measurement, process control (ISO 9000), suitable for use in laboratories or in permanent outdoor installations
- Hydraulic Press Machines and Testing Machines as primary transducer
- Equipment and structure weighing

Specifications

Nominal Forces (F _{nom})	t (kN)	2 ... 1000 (20kN to 10MN)
Operating Mode		Compression Only
Accuracy Class	% F.S.*	0.25%
Combined Error (non-linearity + hysteresis)	%	≤ ± 0.25
Repeatability error	%	≤ ± 0.1
Zero Balance/Offset	%	≤ ± 0.5
Reference temperature	°C	23
Operating temperature range	°C	-20...+70
Compensated temperature range	°C	-10...+50
Storage temperature range	°C	-20...+85
Temperat. effect on sensitivity per 10°C	% F.S./°C	≤ 0.01
Temperat. effect on zero balance per 10°C	% F.S./°C	≤ 0.01
Input resistance	Ohm	760 ± 20
Output resistance	Ohm	700 ± 10
Insulation Resistance (50V)	GOhm	> 5
Reference excitation voltage	V	10
Nominal range of excitation voltage	V	2...15
Safe load limit	% F.S.	>150
Breaking load	% F.S.	> 300
Permissible dynamic load (peak to peak according to DIN50100)	% F.S.	50
Static lateral force limit	% F.S.	15
Fatigue Life	Full-range cycles	10 ⁸ cycles typical (10 ⁹ cycles on fatigue-rated version)
Protection class to EN 60529		IP65 (IP 67/68 upon request)

* F.S. Full Scale / Specifications subject to change without notice.

Dimensions [mm]

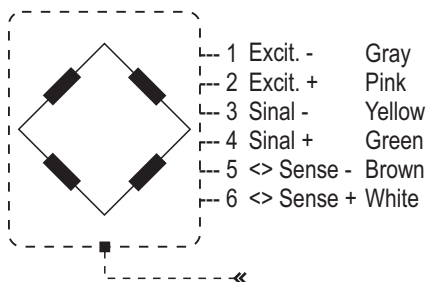


Model	Capacities t [kN]	ϕA	ϕB	C	D	E	F	H	R	Cabl.L [m]	Max. Deflection [mm, nominal]	Weight (kg)
Ctopx-1	2 [20]	31	36	20	20	M6	10	41	30	6	0,05	1
Ctopx-2	5 [50]	31	36	20	20	M8	12	41	30	6	0,05	1
Ctopx-3	10 [100]	50	40	34	20	M10	12	75	76	6	0,1	2,5
Ctopx-4	25 [250]	50	40	34	25	M10	12	75	76	6	0,1	2,5
Ctopx-5	50 [500]	87	58	50	30	M12	15	100	159	6	0,12	6,5
Ctopx-6	100 [1MN]	100	58	70	30	M14	16	150	151	6	0,18	11
Ctopx-7	200 [2MN]	125	90	78	30	M16	18	180	102	6	0,21	19
Ctopx-8	300 [3MN]	138	120	100	40	M18	20	185	182	12	0,21	21
Ctopx-9	500 [5MN]	165	140	125	50	M20	25	240	260	12	0,3	42
Ctopx-10	750 [7.5MN]	198	180	160	60	M24	26	250	360	12	0,41	85
Ctopx-11	1000 [10MN]	276	200	190	60	M30	40	400	410	12	0,46	220

*x=material: CTopx - nickel-plated Steel / CTopss - Stainless Steel

Dimensions are for reference only - request product/model technical drawing for precise dimensions

Electrical



I) Standard: Cable 3 x 2 x 0.25 qmm, according to DIN 47100, length 6m

II) Shield not connect to load cell housing

III) Cable Gland IP68 nickel plated brass

Options: a) Stainless Steel IP68 cable gland

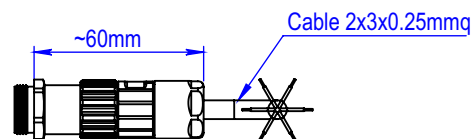
b) Nickel plated brass connector M16 or M20

c) Stainless steel M16 or M23 connectors

d) Others upon client specifications

Connectors

- M16 Connector



Accessories

- Spherical Top Load Cap
- Mounting Base
- Cable Protection with M23 connectors