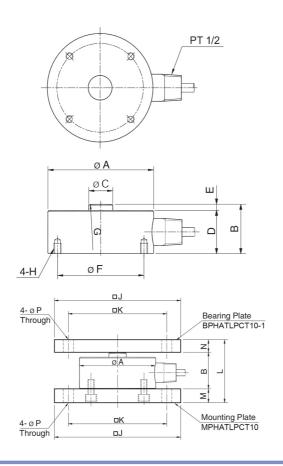


## Series HATLPCT10

High Accuracy Type Low Profile Compression Load Cell (500kg ~ 10t)





The model HATLPCT10 is designed for low profile compression service.

Its compact size makes the cell ideal for a wide range of applications including testing & weighing systems.

- 17-4PH Stainless steel construction for high accuracy and corrosion resistance.
- Fully welded seal with stainless steel cover for hostile environment applications.
- Compact size with low profile.

## SPECIFICATIONS

TYPE       HATLPCT10         Rated capacity (R.C.)       500kg, 1, 2, 5, 10t         Rated output(R.O.)       2.0mV/V ± 0.2%         Non-linearity       ≤0.03% R.O.         Hysteresis       ≤0.03% R.O.         Non-repeatability       ≤0.03% R.O.         Creep error       ≤0.03% in 20min.         Zero balance       ≤1% R.O.         Compensated temperature range       -10 ~ 70°C         Operating temperature range       -20 ~ 80°C         Temp. effect on rated output       ≤0.03% LOAD/10°C         Temp. effect on zero balance       ≤0.03% R.O./10°C         Terminal input resistance       350 Ohms ± 3.5 Ohms         Terminal output resistance       350 Ohms ± 5 Ohms         Insulation resistance (Min.)       2000 MOhms at 50V DC         Excitation voltage       10V(Recommended), 15V(Max.)         Electrial connection       Ø7mmx6m(22AWG x 4Core Shielded)         Protection class       meets IP 67		
$\begin{array}{lll} \text{Rated output(R.O.)} & 2.0 \text{mV/V} \pm 0.2\% \\ \text{Non-linearity} & \leq 0.03\% \text{ R.O.} \\ \text{Hysteresis} & \leq 0.03\% \text{ R.O.} \\ \text{Non-repeatability} & \leq 0.03\% \text{ R.O.} \\ \text{Creep error} & \leq 0.03\% \text{ in 20min.} \\ \text{Zero balance} & \leq 1\% \text{ R.O.} \\ \text{Compensated temperature range} & -10 \sim 70^{\circ}\text{C} \\ \text{Operating temperature range} & -20 \sim 80^{\circ}\text{C} \\ \text{Temp. effect on rated output} & \leq 0.03\% \text{ LOAD/}10^{\circ}\text{C} \\ \text{Terminal input resistance} & 350 \text{ Ohms} \pm 3.5 \text{ Ohms} \\ \text{Terminal output resistance} & 350 \text{ Ohms} \pm 5 \text{ Ohms} \\ \text{Insulation resistance (Min.)} & 2000 \text{ MOhms at 50V DC} \\ \text{Excitation voltage} & 10V(\text{Recommended}), 15V(\text{Max.}) \\ \text{Electrial connection} & \emptyset7\text{mmx6m}(22\text{AWG x 4Core Shielded}) \\ \text{Protection class} & \text{meets IP 67} \\ \end{array}$	TYPE	HATLPCT10
$\begin{array}{lll} \mbox{Non-linearity} & \leq 0.03\% \ R.O. \\ \mbox{Hysteresis} & \leq 0.03\% \ R.O. \\ \mbox{Non-repeatability} & \leq 0.03\% \ R.O. \\ \mbox{Creep error} & \leq 0.03\% \ R.O. \\ \mbox{Creep error} & \leq 0.03\% \ in \ 20 \mbox{min}. \\ \mbox{Zero balance} & \leq 1\% \ R.O. \\ \mbox{Compensated temperature range} & -10 \sim 70^{\circ}\mbox{C} \\ \mbox{Operating temperature range} & -20 \sim 80^{\circ}\mbox{C} \\ \mbox{Temp. effect on rated output} & \leq 0.03\% \ LOAD/10^{\circ}\mbox{C} \\ \mbox{Terminal input resistance} & 350 \ Ohms \pm 3.5 \ Ohms \\ \mbox{Terminal output resistance} & 350 \ Ohms \pm 5 \ Ohms \\ \mbox{Insulation resistance} & 10V(Recommended), \ 15V(Max.) \\ \mbox{Excitation voltage} & 10V(Recommended), \ 15V(Max.) \\ \mbox{Electrial connection} & \mbox{$\phi7mmx6m(22AWG x \ 4Core \ Shielded)} \\ \mbox{Protection class} & meets \ IP \ 67 \\ \end{tabular}$	Rated capacity (R.C.)	500kg, 1, 2, 5, 10t
$ \begin{array}{lll} \mbox{Hysteresis} & \leq 0.03\% \ R.O. \\ \mbox{Non-repeatability} & \leq 0.03\% \ R.O. \\ \mbox{Creep error} & \leq 0.03\% \ in \ 20 \mbox{min.} \\ \mbox{Zero balance} & \leq 1\% \ R.O. \\ \mbox{Compensated temperature range} & -10 \sim 70^{\circ}\mbox{C} \\ \mbox{Operating temperature range} & -20 \sim 80^{\circ}\mbox{C} \\ \mbox{Temp. effect on rated output} & \leq 0.03\% \ LOAD/10^{\circ}\mbox{C} \\ \mbox{Terminal input resistance} & 350 \ Ohms \pm 3.5 \ Ohms \\ \mbox{Terminal output resistance} & 350 \ Ohms \pm 5 \ Ohms \\ \mbox{Terminal output resistance} & 350 \ Ohms \pm 5 \ Ohms \\ \mbox{Insulation resistance} & (Min.) & 2000 \ MOhms \ at \ 50V \ DC \\ \mbox{Excitation voltage} & 10V(Recommended), \ 15V(Max.) \\ \mbox{Electrial connection} & \emptyset 7 \mbox{mmx6m}(22AWG \times 4 \mbox{Core Shielded}) \\ \mbox{Protection class} & meets \ IP \ 67 \\ \end{tabular}$	Rated output(R.O.)	$2.0 \text{mV/V} \pm 0.2\%$
$\begin{array}{lll} \mbox{Non-repeatability} & \leq 0.03\% \ \mbox{R.O.} \\ \mbox{Creep error} & \leq 0.03\% \ \mbox{in 20min.} \\ \mbox{Zero balance} & \leq 1\% \ \mbox{R.O.} \\ \mbox{Compensated temperature range} & -10 \sim 70^{\circ}\mbox{C} \\ \mbox{Operating temperature range} & -20 \sim 80^{\circ}\mbox{C} \\ \mbox{Temp. effect on rated output} & \leq 0.03\% \ \mbox{LOAD/10°C} \\ \mbox{Temp. effect on zero balance} & \leq 0.03\% \ \mbox{R.O./10°C} \\ \mbox{Terminal input resistance} & 350 \ \mbox{Ohms} \pm 3.5 \ \mbox{Ohms} \\ \mbox{Terminal output resistance} & 350 \ \mbox{Ohms} \pm 5 \ \mbox{Ohms} \\ \mbox{Insulation resistance} & 10V(\mbox{Recommended}), 15V(\mbox{Max.}) \\ \mbox{Excitation voltage} & 10V(\mbox{Recommended}), 15V(\mbox{Max.}) \\ \mbox{Electrial connection} & \mbox{$0.7mmx6m(22AWG x 4Core Shielded)} \\ \mbox{Protection class} & \mbox{meets IP 67} \\ \end{tabular}$	Non-linearity	≤0.03% R.O.
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	Hysteresis	≤0.03% R.O.
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	Non-repeatability	≤0.03% R.O.
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	Creep error	≤0.03% in 20min.
Operating temperature range       -20 ~ 80°C         Temp. effect on rated output       ≤0.03% LOAD/10°C         Temp. effect on zero balance       ≤0.03% R.O./10°C         Terminal input resistance       350 Ohms ± 3.5 Ohms         Terminal output resistance       350 Ohms ± 5 Ohms         Insulation resistance (Min.)       2000 MOhms at 50V DC         Excitation voltage       10V(Recommended), 15V(Max.)         Electrial connection       Ø7mmx6m(22AWG x 4Core Shielded)         Protection class       meets IP 67	Zero balance	≤1% R.O.
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	Compensated temperature range	-10 ~ 70°C
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	Operating temperature range	-20 ~ 80°C
	Temp. effect on rated output	≤0.03% LOAD/10°C
	Temp. effect on zero balance	≤0.03% R.O./10°C
Insulation resistance (Min.)     2000 MOhms at 50V DC       Excitation voltage     10V(Recommended), 15V(Max.)       Electrial connection     Ø7mmx6m(22AWG x 4Core Shielded)       Protection class     meets IP 67	Terminal input resistance	350 Ohms ± 3.5 Ohms
Excitation voltage 10V(Recommended), 15V(Max.)  Electrial connection Ø7mmx6m(22AWG x 4Core Shielded)  Protection class meets IP 67	Terminal output resistance	350 Ohms ± 5 Ohms
Electrial connection Ø7mmx6m(22AWG x 4Core Shielded) Protection class meets IP 67	Insulation resistance (Min.)	2000 MOhms at 50V DC
Protection class meets IP 67	Excitation voltage	10V(Recommended), 15V(Max.)
	Electrial connection	Ø7mmx6m(22AWG x 4Core Shielded)
Cofe everload 150% B.C	Protection class	meets IP 67
Sale overload 150% R.C	Safe overload	150% R.C
Ultimate overload 300% R.C	Ultimate overload	300% R.C

## **Dimension-mm**

Capacity	Α	В	С	D	Е	F	G	Н	J	K	L	M	N	Р	Bearing plate	Mounting plate	Weight (kg)
500kg ~ 5t (4.903kN ~ 49.037kN)	88	40	20	35	5	72	R150	4-M6x1P Depth 8	160	126	100	30	30	14	BPHATLPCT10-1	MPHATLPCT10-1	2.3
10t (98.07kN)	88	45	20	40	5	72	R150	4-M6x1P Depth 8	160	126	105	30	30	14	(Zinc Plated Steel)	(Zinc Plated Steel)	3.7

