

CPH

CPH SERIES COMPRESSION LOAD CELLS



Stainless steel compression load cells with very high load capacity, up to 1000 t. The CPH model is designed to ensure optimum weighing performance even in the harshest environments. Ideal for load control applications in large capacity silos and to replace level indicators, ensuring greater accuracy and reliability.

CAPACITIES (t): 50, 100, 250, 500, 800, 1.000.

Stainless steel. IP67 protection rating.

**The best solution
for advanced industrial
applications**

MAIN FEATURES

- CAPACITIES from 50 to 1.000 t
- GREAT RESISTANCE TO LATERAL FORCES
- STAINLESS STEEL CONSTRUCTION
- IP67 PROTECTION RATING
- SHIELDED CONNECTION CABLE
- REMOVABLE HANDLES FOR TRANSPORTING THE LOAD CELL

TECHNICAL FEATURES

- Full Scale Output: $2\text{mV/V} \pm 1\%$
- Repeatability: 0,1% F.S.
- Temperature effect on zero: 0,0014% F.S./°C
- Temperature effect on full scale output: 0,0013% F.S./°C
- Compensated Temperature Range: $-10^{\circ}\text{C} / +40^{\circ}\text{C}$
- Operating Temperature Range: $-30^{\circ}\text{C} / +85^{\circ}\text{C}$
- Storage Temperature Range: $-30^{\circ}\text{C} / +90^{\circ}\text{C}$
- Non-linearity: 0,15% F.S.
- Hysteresis: 0,15% F.S.
- Creep error after 4 hours: 0,05% F.S.
- Maximum tolerated excitation voltage: 15 Vdc
- Input Resistance (capacity from 50 to 500 t): $1050 \pm 20 \text{ Ohm}$
- Output Resistance (capacity from 50 to 500 t): $1050 \pm 20 \text{ Ohm}$
- Input Resistance (capacity from 800 to 1.000 t): $1400 \pm 20 \text{ Ohm}$
- Output Resistance (capacity from 800 to 1.000 t): $1400 \pm 20 \text{ Ohm}$
- Zero Balance: $\pm 2\%$ F.S.
- Insulation Resistance: $> 5.000 \text{ MOhm}$
- Safe Overload: $> 150\%$ F.S.
- Breaking load: $> 300\%$ F.S.
- 6-wire shielded cable, 5 mm diameter:
 - 15 m long for the versions from 50 to 500 t
 - 25 m long for the versions from 800 to 1.000 t

Wiring Code

<i>Colour</i>	<i>Function</i>
--	SHIELD
GREEN	OUTPUT +
VIOLET	SENSE +
RED	INPUT +
WHITE	OUTPUT -
GREY	SENSE -
BLACK	INPUT -

DETAIL 1



REMOVABLE HANDLES FOR TRANSPORTING THE LOAD CELL,
PROVIDED AS STANDARD.

VERSIONS

Available versions

Codice	Max (kg)
CPH50	50.000
CPH100	100.000
CPH250	250.000
CPH500	500.000
CPH800	800.000
CPH1000	1.000.000

COVENTRY SCALE COMPANY



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